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WATER SUPPLY OUTLOOK FOR MONTANA



U. S. DEPARTMENT of AGRICULTURE ★ SOIL CONSERVATION SERVICE

Collaborating with

MONTANA AGRICULTURAL EXPERIMENT STATION

**SNOW COURSE & SNOW PILLOW
BASIC DATA SUMMARY
1979 WATER YEAR**

Data included in this report were obtained by the agencies named above in cooperation with Federal, State and private organizations listed inside the back cover of this report.

TO RECIPIENTS OF WATER SUPPLY OUTLOOK REPORTS:

Most of the usable water in western states originates as mountain snowfall. This snowfall accumulates during the winter and spring, several months before the snow melts and appears as streamflow. Since the runoff from precipitation as snow is delayed, estimates of snowmelt runoff can be made well in advance of its occurrence. Streamflow forecasts published in this report are based principally on measurement of the water equivalent of the mountain snowpack.

Forecasts become more accurate as more of the data affecting runoff are measured. All forecasts assume that climatic factors during the remainder of the snow accumulation and melt season will interact with a resultant average effect on runoff. Early season forecasts are therefore subject to a greater change than those made on later dates.

The snow course measurement is obtained by sampling snow depth and water equivalent at surveyed and marked locations in mountain areas. A total of about ten samples are taken at each location. The average of these are reported as snow depth and water equivalent. These measurements are repeated in the same location near the same dates each year.

Snow surveys are made monthly or semi-monthly from January 1 through June 1 in most states. There are about 1900 snow courses in Western United States and in the Columbia Basin in British Columbia. Networks of automatic snow water equivalent and related data sensing devices, along with radio telemetry are expanding and will provide a continuous record of snow water and other parameters at key locations.

Detailed data on snow course and soil moisture measurements are presented in state and local reports. Other data on reservoir storage, summaries of precipitation, current streamflow, and soil moisture conditions at valley elevations are also included. The report for Western United States presents a broad picture of water supply outlook conditions, including selected streamflow forecasts, summary of snow accumulation to date, and storage in larger reservoirs.

Snow survey and soil moisture data for the period of record are published by the Soil Conservation Service by states about every five years. Data for the current year is summarized in a West-wide basic data summary and published about October 1 of each year.

COVER PHOTO: THE SNOTEL PROJECT CENTRAL COMPUTER FACILITIES IN PORTLAND, OREGON. THE TERMINAL, PRINTER, COMPUTER AND TAPE DRIVES HAVE NOT COMPLETELY REPLACED THE SNOW SAMPLING TUBES SEEN IN THE FOREGROUND.

PUBLISHED BY SOIL CONSERVATION SERVICE

The Soil Conservation Service publishes reports following the principal snow survey dates from January 1 through June 1 in cooperation with state water administrators, agricultural experiment stations and others. Copies of the reports for Western United States and all state reports may be obtained from Soil Conservation Service, West Technical Service Center, Room 510, 511 N.W. Broadway, Portland, Oregon 97209.

Copies of state and local reports may also be obtained from state offices of the Soil Conservation Service in the following states:

STATE	ADDRESS
Alaska	Room 129, 2221 East Northern Lights Blvd., Anchorage, Alaska 99504
Arizona	Room 3008, Federal Building, 230 N. First Ave., Phoenix, Arizona 85025
Colorado (N. Mex.)	P. O. Box 17107, Denver, Colorado 80217
Idaho	Room 345, 304 N. 8th. St., Boise, Idaho 83702
Montana	P. O. Box 98, Bozeman, Montana 59715
Nevada	P. O. Box 4850, Reno, Nevada 89505
Oregon	1220 S. W. Third Ave., Portland, Oregon 97204
Utah	4420 Federal Bldg., 125 South State St., Salt Lake City, Utah 84138
Washington	360 U. S. Court House, Spokane, Washington 99201
Wyoming	P. O. Box 2440, Casper, Wyoming 82602

PUBLISHED BY OTHER AGENCIES

Water Supply Outlook reports prepared by other agencies include a report for California by the Snow Surveys Branch, California Department of Water Resources, P.O. Box 388, Sacramento, California 95802 --- for British Columbia by the Ministry of the Environment, Water Investigations Branch, Parliament Buildings, Victoria, British Columbia V8V 1X5 --- for Yukon Territory by the Department of Indian and Northern Affairs, Northern Operations Branch, 200 Range Road, Whitehorse, Yukon Territory Y1A 3V1 --- and for Alberta, Saskatchewan, and N.W.T. by the Water Survey of Canada, Inland Waters Branch, 110-12 Avenue S.W., Calgary, Alberta T3C 1A6.



WATER SUPPLY OUTLOOK FOR MONTANA

and
FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS

SNOW COURSE AND SNOW PILLOW BASIC DATA SUMMARY 1979 WATER YEAR

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WATER SUPPLY OUTLOOK FOR MONTANA

SNOW COURSE & SNOW PILLOW BASIC DATA SUMMARY 1979 WATER YEAR

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SNOW COURSE

DATA...

MONTANA SNOW COURSE DATA - 1979 WY

SNOW COURSE ELEVATION (feet)	JANUARY			FEBRUARY			MARCH			APRIL			MAY			JUNE		
	DATE	(inches)		DATE	(inches)		DATE	(inches)		DATE	(inches)		DATE	(inches)		DATE	(inches)	
		SNOW DEPTH	WATER CONTENT		SNOW DEPTH	WATER CONTENT		SNOW DEPTH	WATER CONTENT		SNOW DEPTH	WATER CONTENT		SNOW DEPTH	WATER CONTENT		SNOW DEPTH	WATER CONTENT
ABUNDANCE LAKE 3800							2/27	52	13.4	4/06	58	20.4	4/27	76	25.2			
AMBROSE 6480							3/02	47	12.6	3/27	42	13.6	4/27	41	17.0			
ARCH FALLS 7350	12/26	24	5.4	1/29	30	7.5	2/27	40	10.1	3/29	39	11.4	4/27	43	14.2	5/31	23	6.6
													5/14	35	12.2			
BADGER PASS 6900	12/31	73	19.5A	1/26	80	23.0A	3/03	96	35.0	4/08	106	41.9	5/03	99	43.9	5/27	67	34.1
													5/12	94	44.1			
BALD EAGLE PEAK 5700							3/09	133	48.6	4/04	137	52.6	4/25	133	55.7	5/29	57	29.5
													5/14	103	49.7			
BALD RIDGE 7500							3/05	48	13.4	3/27	47	14.5	4/27	47	17.5			
BANFIELD MOUNTAIN 5600							3/08	53	18.0	3/29	55	19.5	4/26	49	20.0	5/31	0	.0
													5/17	22	10.6			
BAREE CREEK 5500							2/23	113	36.7	3/30	105	41.9	4/30	87	42.0			
													5/15	63	33.1			
BAREE MIDWAY 4600							2/22	101	32.7	3/30	94	35.7	4/30	72	32.0			
													5/15	40	21.1			
BAREE TRAIL 3800							2/22	35	9.7	3/29	26	7.9	4/30	0	.0			
													5/15	0	.0			
BARKER LAKES 8250				2/06	36	8.9				4/04	51	14.8						
BASIN CREEK 7180	12/27	18	3.2	1/30	27	5.0	2/26	31	6.4	3/28	41	9.0	4/27	42	12.2			
													5/14	32	10.6			
BASSOO PEAK 5150							3/01	46	13.5	3/30	42	12.9	5/02	12	4.5			
BATTLE RIDGE 6020	12/29	26	7.5	1/30	35	10.3	2/26	35	11.2	3/26	28	9.6	4/26	16	6.0	6/01	0	.0
													5/15	0	.0			
BEAGLE SPRINGS 8850							3/04	37	8.7	4/01	35	9.1	4/26	37	10.3	6/01	EST	1.0
BEAR BASIN 8150							3/01	61	16.8	3/27	51	17.2	4/25	64	22.0			
BEAR PAW SKI AREA 5200	12/27	31	7.0	1/24	41	12.2	2/26	44	14.2	3/28	42	13.8	4/27	37	15.0			
BEAVER LAKE 5900							3/03	66	21.5	4/08	68	25.4	5/03	62	25.4			

MONTANA SNOW COURSE DATA - 1979 WY

SNOW COURSE ELEVATION (feet)	JANUARY			FEBRUARY			MARCH			APRIL			MAY			JUNE		
	DATE	SNOW DEPTH	(inches) WATER CONTENT	DATE	SNOW DEPTH	(inches) WATER CONTENT	DATE	SNOW DEPTH	(inches) WATER CONTENT	DATE	SNOW DEPTH	(inches) WATER CONTENT	DATE	SNOW DEPTH	(inches) WATER CONTENT	DATE	SNOW DEPTH	(inches) WATER CONTENT
BERRY MEADOW	7000						2/23	31	7.6	3/26	29	7.8						
BIG COULEE	5100	12/21	19	4.1	1/30	28	6.9						4/27	0	.0	5/31	0	.0
BIG CREEK	6750						3/01	110	35.7	3/27	104	38.8	4/26	127	51.2	6/01	85	45.3
BIG SKY	7700	12/28	22	5.0	1/28	34	7.7						4/25	50	15.7			
BIG SKY MEADOW	6350						3/01	41	10.2	3/27	33	9.7	4/25	18	6.3			
BIG SNOWY	7150						2/27	69	23.3	3/29	69	24.4	5/01	76	29.4			
BLACK BEAR	7950	12/28	60	14.4	1/31	70	22.2	2/27	105	33.8	3/29	107	39.8	4/24	96	42.6	6/01	EST 23.0
													5/14	74	38.1			
BLACK MOUNTAIN	7750						2/26	44	12.2	3/28	54	15.3	4/26	65	21.4			
BLACK PINE	7100	12/29	26	6.2	1/29	34	8.0	2/28	42	11.3	3/30	46	13.1	4/30	41	14.6	5/31	2 .6
													5/14	31	11.4			
BLOODY DICK	7600						2/28	47	11.5	3/29	46	13.8	4/26	49	17.0	6/01	EST	.0
													5/15	EST 11.5				
BLUE LAKE	5900	12/31	42	10.0A	1/26	54	14.5A	3/03	72	25.6	4/08	70	28.0	5/03	62	27.6	5/27	23 10.8
													5/12	57	27.4			
BOTS SOTS	8000						3/01	34	6.1	3/29	32	7.0	4/30	22	7.6			
													5/15	11	3.6			
BOULDER MOUNTAIN	7950						2/26	60	19.1	3/26	60	20.5	4/24	72	24.6	6/01	EST 13.0	
													5/15	EST 20.5				
BOX CANYON	6670						2/28	40	10.4	4/01	45	13.4	4/30	28	10.4	6/01	EST	.0
BOXELDER CREEK	5100												4/30	38	10.8			
BRANHAM LAKES	8850						2/28	69	21.3	4/02	73	26.2	5/02	75	31.8			
BRIDGER BOWL	7250	12/29	48	14.6	1/30	56	18.0	2/28	66	22.6	3/30	69	25.9	4/26	78	31.3	6/01	42 19.2
													5/15	67	30.8			
BRISTOW CREEK	3900						3/08	30	9.5	3/29	22	8.3	4/26	0	.0	5/31	0	.0
BRUSH CREEK TIMBER	5000						2/28	40	11.0	3/28	35	10.5	4/25	28	10.4			

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BULL MOUNTAIN	6600	1/03	23	4.8	1/31	30	7.2	2/26	36	9.2	3/30	32	9.2	4/30	26	10.2		
CABIN CREEK	5200							2/27	32	7.9	3/29	32	8.9	4/27	19	6.2		
CALL ROAD	8050							3/04	47	10.8	4/01	44	12.4	4/25	49	14.2		
CALVERT CREEK	6450				2/01	EST	5.8	3/01	41	9.9	3/30	36	10.8	4/25	31	11.6	6/01	EST .0
CAMP MISERY	6400							2/27	119	39.8	3/26	108	42.8	4/30	125	51.2		
CAMP SENIA	7890							3/01	32	5.5	3/30	29	5.4	4/30	30	8.2		
														5/15	24	6.9		
CARROT BASIN	9000	12/27	47	11.6	1/31	56	18.2	2/27	80	26.0	3/29	91	33.6	4/26	86	37.1		
CARTER CREEK	7400				2/02	22	3.9	3/01	24	4.5	4/02	28	7.0					
CEDAR GROVE	4100							3/09	40	14.5	4/04	45	15.2	4/25	27	11.2	5/29	0 .0
														5/14	0	.0		
CHESSMAN RESERVOIR	6200	12/30	22	4.4	1/30	28	6.8	3/02	31	8.2	3/30	30	8.0	5/01	22	7.5		
CHICKEN CREEK	4060				1/30	38	8.9	2/27	49	14.2	3/27	32	13.6	4/27	18	6.9	5/29	0 .0
CLOVER MEADOW	8600							3/04	56	13.9	4/01	51	14.4	4/25	55	18.7		
COLE CREEK	7850	1/02	44	12.8	1/31	49	13.8	2/28	51	15.8	3/29	62	18.8	5/01	69	25.2		
														5/15	EST	25.0		
COLLEY CREEK	6300							3/01	41	8.5	3/31	33	9.1	4/30	0	.0		
COMBINATION	5600	1/02	18	3.5	1/29	24	4.4	2/28	27	6.2	3/30	28	7.6	4/30	18	6.0	5/30	0 .0
														5/13	0	.0		
COOKE STATION	8150	12/28	42	11.4	2/01	EST	11.0	3/02	81	19.3	3/30	73	21.2	4/30	60	23.2	5/30	37 15.4
														5/16	51	23.1		
COPPER BOTTOM	5200				2/01	EST	8.3	2/28	45	13.2	3/28	42	12.9	4/27	27	11.3	6/01	EST .0
														5/15	EST	1.0		
COPPER CAMP	6950				2/01	EST	20.0	2/28	88	27.9	3/28	84	28.8	4/27	84	34.2	6/01	EST 19.0
														5/15	EST	32.0		

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MONTANA SNOW COURSE DATA - 1979 WY

SNOW COURSE ELEVATION (feet)	JANUARY			FEBRUARY			MARCH			APRIL			MAY			JUNE		
	DATE	SNOW DEPTH	(inches) WATER CONTENT	DATE	SNOW DEPTH	(inches) WATER CONTENT	DATE	SNOW DEPTH	(inches) WATER CONTENT	DATE	SNOW DEPTH	(inches) WATER CONTENT	DATE	SNOW DEPTH	(inches) WATER CONTENT	DATE	SNOW DEPTH	(inches) WATER CONTENT
EAST FORK R.S.																		
5400							2/27	24	6.6	4/06	16	5.4	4/27	0	.0			
EL DORADO MINE							2/26	60	18.3	3/27	72	23.7						
7800							2/27	30	6.8	4/06	32	10.0	4/27	37	13.3			
ELK HORN SPRINGS							2/27	50	13.8	3/29	58	18.2	4/26	62	20.8			
ELK PEAK							2/26	54	15.8	3/27	49	16.4	5/01	27	13.0	5/30	0	.0
8000							3/01	80	25.3	3/27	73	25.9	4/26	76	32.8	6/01	18	9.7
EMERY CREEK							2/26	32	7.1	3/28	42	9.4	4/27	50	14.0			
4350	12/26	30	6.6	1/31	38	10.0							5/14	38	13.1			
FATTY CREEK																		
5500																		
FISH CREEK																		
8000	12/27	18	3.0	1/30	25	4.9												
FISHER CREEK																		
9100	12/28	65	17.5	2/01	EST	19.5	3/02	117	33.3	3/30	109	36.0	4/30	96	40.8	5/29	72	33.2
													5/16	90	41.4			
FIVE-BULL																		
5700							3/03	33	8.8	4/06	28	9.2	5/03	16	4.6			
FLEECER RIDGE							2/26	42	11.4	3/30	45	12.8	4/30	43	14.6			
7500	1/02	26	5.3	1/31	32	8.2												
FOOLHEN							2/27	46	12.1	4/06	53	16.2	4/27	60	20.8			
FOREST LAKE																		
6400										3/26	46	13.9						
6900							2/26	34	9.0	3/27	34	10.3	4/27	32	11.2			
FOURTH OF JULY																		
3450	1/02	21	4.8	1/31	27	5.4	3/02	34	8.8	3/29	33	8.5	4/30	13	4.2	6/05	0	.0
													5/14	0	.0			
FRED BURR PASS																		
8000	12/28	43	10.1				2/28	62	17.4	4/02	74	23.8	4/27	78	28.4			
FREIGHT CREEK							3/03	49	15.3	4/08	50	18.2	5/03	43	15.9			
6000																		
4620	1/02	25	6.6	1/31	32	8.3	3/02	63	18.9	3/29	44	14.7	4/30	24	10.5	6/05	0	.0
													5/15	2	1.0			
FROHNER MEADOWS																		
6480	1/02	27	6.8	1/30	33	8.2	3/02	39	9.5	3/30	36	10.8	5/01	25	8.3	5/29	0	.0
													5/15	EST	3.8			
GARVER CREEK																		
4250							3/09	25	9.0	4/02	21	6.3	4/23	12	4.4	5/29	0	.0
													5/14	0	.0			
GIBBONS PASS																		
7100	12/28	37	8.9	1/29	46	12.0	2/27	63	18.9	3/29	60	22.0	4/30	57	24.4			

MONTANA SNOW COURSE DATA - 1979 WY

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SNOW COURSE ELEVATION (feet)	JANUARY			FEBRUARY			MARCH			APRIL			MAY			JUNE				
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GOAT MOUNTAIN																				
7000							3/03	45	12.9		3/30	50	14.2		4/28	43	14.8			
GOLD CREEK LAKE							2/26	49	13.7		3/27	57	17.4							
7200																				
GOLD STONE							2/28	54	13.6		3/29	55	16.8		4/26	62	21.4			
GRASSHOPPER							2/27	30	7.3		3/29	32	7.8		4/26	25	7.4			
7000																				
GRAVE CREEK							3/01	51	15.3		3/30	38	13.9		4/27 5/16	29 2	13.2 1.0	5/29	0	.0
4300	12/26	31	7.0	1/30	34	8.8														
GRIFFIN CREEK DIVIDE																				
5150							2/28	48	14.2		3/29	44	13.2		5/01	22	8.3			
GRIZZLY PEAK							2/28	49	15.1		3/29	58	18.0		5/01	67	23.8			
8400	1/02	43	12.2	1/31	48	13.1														
GUNSIGHT LAKE							3/03	99	34.9		4/08	110	41.7		5/03 5/12	98 92	43.6 43.7	5/27	55	27.8
6300																				
HAND CREEK							2/28	51	15.2		3/28	47	15.0		4/25	39	15.4	6/01	EST	.0
5030																				
HAWKINS LAKE							3/09	58	19.1		4/02	65	20.8		4/23 5/14	70 50	24.3 22.0	5/29	18	7.6
6450																				
HAYMAKER											4/01	52	14.5							
8050																				
HEART LAKE TRAIL																				
4800	12/28	49	12.2	2/01	48	14.4	2/27	63	23.1		4/03	71	25.4		4/30 5/15	45 27	21.3 13.5	5/31	0	.0
HEBGEN DAM																				
6550	12/30	18	3.6	1/28	30	7.1	2/25	42	10.4		3/31	38	12.8		4/28	23	9.6			
HELL ROARING DIVIDE																				
5770	12/29	45	11.0	1/31	52	15.2	3/01	83	25.5		3/31	88	29.5		4/30 5/18	72 57	31.1 26.8	6/01	29	13.6
HERRIG JUNCTION																				
4850				1/30	46	11.4	2/27	74	21.9		3/27	58	22.3		4/27	53	21.4	5/29	0	.0
HIGHWOOD DIVIDE																				
5650	12/21	21	4.2	1/30	31	7.1					3/29	25	8.3		4/30	19	6.8	5/31	0	.0
HIGHWOOD STATION																				
4600	12/21	18	3.5				3/13	19	7.1		3/29	21	6.0		4/27	0	.0	5/31	0	.0
HOLBROOK																				
4530	12/31	29	5.5A	2/02	31	7.5A	3/08	32	9.4		4/06	32	10.8		5/03 5/12	4 0	1.4 .0			
HOOD MEADOW																				
6600	12/26	24	5.2	1/29	30	7.2	2/27	36	9.0		3/29	34	9.8		4/27 5/14	32 18	10.8 6.2	5/31	6	1.2

MONTANA SNOW COURSE DATA - 1979 WY

SNOW COURSE ELEVATION (feet)	JANUARY			FEBRUARY			MARCH			APRIL			MAY			JUNE			
	DATE	SNOW DEPTH	(inches) WATER CONTENT	DATE	SNOW DEPTH	(inches) WATER CONTENT	DATE	SNOW DEPTH	(inches) WATER CONTENT	DATE	SNOW DEPTH	(inches) WATER CONTENT	DATE	SNOW DEPTH	(inches) WATER CONTENT	DATE	SNOW DEPTH	(inches) WATER CONTENT	
HOODOO BASIN	6000	12/28	74	20.2	2/01	73	25.4	2/27	123	42.3	4/03	130	46.1	4/30	107	49.6	5/31	50	28.8
HOODOO CREEK	5900	12/28	69	17.9	2/01	69	22.3	2/27	120	40.2	4/03	128	45.1	4/30	108	49.3	5/31	54	28.9
ICEBERG LAKE #3	5600													5/01	63	29.9			
INDEPENDENCE	7850							2/28	56	16.0	4/01	60	18.4	4/30	46	17.2			
INTERGAARD	6450				1/30	26	5.3	2/28	29	7.2	3/31	33	8.7	5/01	28	9.0			
														5/15	13	4.6			
JACK CREEK	7500							2/27	31	7.6	3/28	29	8.2						
JAHNKE LAKE TRAIL	7200							2/28	40	9.6	3/29	38	11.2	4/26	39	13.9			
JOHNSON PARK	6450	1/02	21	4.8	2/02	28	6.4	2/27	32	8.2	4/02	30	8.3	4/27	20	6.7			
JOSEPHINE LOWER #9	4900													5/01	41	14.5			
KEELER CREEK	3300							3/09	37	13.1	4/03	27	10.0	4/24	0	.0			
KING CREEK SADDLE	4550	12/21	15	3.7	1/29	21	4.6	2/27	27	7.0	3/30	20	6.4	5/03	0	.0			
KING SPRINGS	4150	12/21	14	3.3	1/29	20	4.2	2/27	25	6.3	3/30	16	6.0	5/03	0	.0			
KINGS HILL	7500	12/27	31	7.4				2/28	50	12.8	3/28	49	14.2	4/25	55	17.8	5/30	22	7.8
														5/15	45	16.6			
KISHENEHN	3890							2/26	30	6.8	3/29	24	5.4						
KIWANIS CAMP	3720	12/27	19	3.4	1/24	26	5.2	2/26	26	6.6	3/28	6	.6	4/27	0	.0			
LAKE CREEK	6100	12/29	18	3.8				3/02	41	9.1	3/30	31	8.6	4/30	7	2.3			
LAKEVIEW CANYON	6930	12/29	20	3.8	1/31	26	5.0	2/28	41	9.2	3/30	47	13.6	4/30	32	11.6			
LAKEVIEW RIDGE	7400	12/29	19	3.6	1/31	24	5.2	2/28	36	8.2	3/30	43	12.3	4/30	26	10.3	6/01	EST	.0
LEMHI PASS	7480							3/04	40	9.8	4/01	37	10.0	4/25	38	11.3			
LEMHI RIDGE	8100							3/04	43	10.3	4/01	41	10.6	4/25	50	15.1	6/01	EST	.0
														5/15	EST	7.5			

MONTANA SNOW COURSE DATA - 1979 WY

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SNOW COURSE ELEVATION (feet)	JANUARY			FEBRUARY			MARCH			APRIL			MAY			JUNE			
	DATE	SNOW DEPTH	(inches) WATER CONTENT	DATE	SNOW DEPTH	(inches) WATER CONTENT	DATE	SNOW DEPTH	(inches) WATER CONTENT	DATE	SNOW DEPTH	(inches) WATER CONTENT	DATE	SNOW DEPTH	(inches) WATER CONTENT	DATE	SNOW DEPTH	(inches) WATER CONTENT	
LICK CREEK	6860	12/26	26	5.4	1/29	33	7.5	2/27	39	9.0	3/29	37	10.4	4/26 5/14	32 14	10.8 5.4	5/31	3	.6
LITTLE PARK	7400							3/01	53	13.4	3/27	44	13.6	4/25	49	15.4			
LOGAN CREEK	4300							2/28	33	9.0	3/28	31	8.2	4/25	15	4.9			
LONE MOUNTAIN	8800	12/28	33	8.6	1/28	44	11.9	3/02	68	17.2	3/28	57	19.2	4/25	67	24.0			
LOST HORSE	5940	1/04	56	16.5				2/28	88	30.0	3/28	80	30.9	5/01	73	34.6			
LOST SOUL	4800							3/08	39	12.9	3/29	40	13.2	4/26	26	10.5	5/31	0	.0
LOWER TWIN	7900							2/26	56	18.0	3/27	60	19.6	4/27	66	25.2			
LUBRECHT FLUME	4200	1/02	22	5.0	1/29	29	6.8	2/27	29	8.8	3/28	14	4.4	4/30	0	.0			
LUBRECHT FOREST #3	5450	1/02	22	5.0	1/30	28	6.5	2/27	33	9.0	3/28	26	7.9	4/30	9	3.3			
LUBRECHT FOREST #4	4650	1/02	16	3.0	1/30	21	4.4	2/27	18	5.2	3/28	8	2.0	4/30	0	.0			
LUBRECHT FOREST #6	4040	12/26	16	3.1	1/30	22	4.6	2/27	19	6.0	3/28	11	3.2	4/30	0	.0			
LUBRECHT HYDROPLOT	4200	1/02	19	4.0	1/29	27	6.0	2/27	24	7.1	3/28	12	3.9	4/30	0	.0			
MADISON PLATEAU	7750				1/31	46	12.6	2/27	67	19.4	3/29	70	23.6	4/24 5/14	58 43	23.8 19.8			
MANY GLACIER	4960	1/02	31	6.5	2/01	38	10.0	3/01	62	18.1	4/01	62	19.9	4/30	38	15.8	6/01	EST	.0
MARIAS PASS	5250	1/02	32	8.6	1/31	39	11.1	2/28	59	17.4	3/28	53	17.5	5/02	42	18.2			
MAYNARD CREEK	6210	12/29	39	10.9	1/30	44	13.2	2/28	49	15.2	3/30	48	17.0	4/26 5/15	52 35	23.5 14.2	6/01	0	.0
MIDDLE MILL CREEK	7850							2/28	51	14.2	4/02	45	14.3	5/02	48	18.7			
MILL CREEK	7500										3/31	48	14.2	4/30	35	12.6			
MINERAL CREEK	4000							2/27	52	15.0	3/30	51	17.2	4/29	31	11.4			
MISSION MOUNTAIN	5050	12/21	17	4.3	1/29	25	6.8	2/27	32	8.5	3/30	32	9.8	5/03	0	.0			
MONUMENT PEAK	8800							2/28	73	20.6	4/01	81	25.1	4/30	71	27.9			

MONTANA SNOW COURSE DATA - 1979 WY

SNOW COURSE ELEVATION (feet)	JANUARY			FEBRUARY			MARCH			APRIL			MAY			JUNE		
	DATE	SNOW DEPTH	(inches) WATER CONTENT	DATE	SNOW DEPTH	(inches) WATER CONTENT	DATE	SNOW DEPTH	(inches) WATER CONTENT	DATE	SNOW DEPTH	(inches) WATER CONTENT	DATE	SNOW DEPTH	(inches) WATER CONTENT	DATE	SNOW DEPTH	(inches) WATER CONTENT
MOULTON RESERVOIR																		
6850	1/02	20	4.4	2/01	27	5.7	2/27	31	6.2	3/26	26	5.5	4/26	30	7.6			
													5/15	0	.0			
MOUNT ALLEN #7																		
5700													5/01	92	39.6			
MOUNT LOCKHART																		
6400	1/06	43	10.6	2/01	EST	14.0	3/05	68	22.2	4/02	76	24.6	4/30	67	27.0	6/01	EST	13.0
													5/15	EST	20.5			
MUDD LAKE																		
7650							3/01	61	16.9	3/30	56	18.6	4/25	57	21.0			
NEW WORLD																		
6900				1/31	40	10.6	2/26	41	12.0	3/26	44	14.2						
NEWTON MOUNTAIN																		
5600	1/02	32	8.2	1/31	40	10.6	3/02	83	25.2	3/29	76	26.5	4/30	68	27.8	6/05	2	.7
													5/15	52	23.5			
NEZ PERCE CAMP																		
5580							3/02	52	16.4	4/06	42	17.6	4/27	36	17.0			
NEZ PERCE CREEK																		
6500				1/31	25	5.1	2/27	28	6.8	3/30	27	7.2	4/30	16	4.6			
NEZ PERCE PASS																		
6570							3/02	57	18.6	4/06	45	18.6	4/27	42	18.5			
NOISY BASIN																		
6040	12/26	55	15.2	1/30	81	23.1	2/27	112	33.6	3/26	103	39.1	4/30	114	48.3	5/30	84	41.9
													5/15	112	54.5			
NOISY CREEK																		
3600				1/30	29	6.9	2/27	26	8.8	3/26	11	3.9	4/30	0	.0			
NORTH FORK ELK CREEK																		
6250	1/02	29	7.5	1/29	39	10.1	2/27	43	13.0	3/28	42	14.4	5/01	36	13.4			
													5/16	20	8.4			
NORTH FORK JOCKO																		
6330	12/28	68	17.7	2/01	82	25.0	3/01	112	38.7	4/06	121	47.2	4/30	103	45.9	5/31	48	25.3
													5/15	90	42.1			
NORTH MEADOW																		
7500							2/26	33	8.6	3/27	36	9.7	4/27	38	11.8			
NORTHEAST ENTRANCE																		
7400	1/01	24	5.3	2/02	30	7.7	3/03	41	10.6	4/01	37	10.1	4/30	22	8.0	5/30	1	.2
													5/14	11	4.0			
NOTCH																		
8500							3/04	49	11.9	4/01	46	13.2	4/25	56	17.8			
OPHIR PARK																		
7150	12/31	36	10.1	1/30	45	13.6	2/28	57	18.4	4/01	62	20.6	4/29	60	23.7	6/01	10	4.6
PALISADE CREEK																		
8250																		
PETERSON MEADOWS																		
7200	12/27	21	4.3	2/02	29	6.4	2/27	35	8.4	3/30	35	9.6	4/30	35	11.8	5/31	3	.8
													5/15	28	10.5			

MONTANA SNOW COURSE DATA - 1979 WY

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SNOW COURSE ELEVATION (feet)	JANUARY			FEBRUARY			MARCH			APRIL			MAY			JUNE		
	DATE	SNOW DEPTH	(inches) WATER CONTENT	DATE	SNOW DEPTH	(inches) WATER CONTENT	DATE	SNOW DEPTH	(inches) WATER CONTENT	DATE	SNOW DEPTH	(inches) WATER CONTENT	DATE	SNOW DEPTH	(inches) WATER CONTENT	DATE	SNOW DEPTH	(inches) WATER CONTENT
PICKET PIN D 9450							4/05	70	23.5A	5/03 5/15	68 57	26.5A 25.5A						
PICKET PIN MIDDLE 7250							4/02	56	18.5									
PICKET PIN UPPER 8100							4/02	68	21.1									
PICKFOOT CREEK 6650				2/26	44	13.2	3/26	39	12.7	4/24	38	12.7				6/01	EST	.0
PICNIC GROUNDS 6200			1/30	19	3.8	2/28	24	4.6	3/31	21	5.2	5/01	15	3.8				
PIEGAN PASS #6 5500											5/01	76	34.4					
PIKE CREEK 5930							3/21	67	27.6									
PIPESTONE PASS 7200	1/02	16	2.9	1/31	19	3.8	2/27	25	5.0	4/04	32	7.6	4/30 5/15	30 19	9.8 6.0			
PLACER BASIN F 8800							4/05	65	21.5A	5/03 5/15	63 51	24.0A 23.0A						
POORMAN CREEK 5100				3/09	83	33.1	4/04	86	35.3	4/25 5/14	76 42	32.8 23.0	5/29	3	1.6			
PORCUPINE 6500				3/01	36	8.9	3/27	35	9.3	4/27	33	11.3	6/01	EST	.0			
POTOMAGETON PARK 7150				2/26	49	13.4	4/02	47	15.9	4/30	24	10.8						
PTARMIGAN #8 5800										5/02	77	33.2						
RED MOUNTAIN 6000				3/01	52	15.1	3/30	48	14.2	4/30 5/14	43 30	14.0 11.6	5/31	0	.0			
RED TOP 5260	1/02	26	6.8	1/31	33	8.5	3/29	60	19.7	4/30 5/15	53 33	21.3 14.1	6/05	0	.0			
ROCK CREEK 5600				2/27	42	12.1	3/29	38	12.1	5/01	31	10.6						
ROCK CREEK MEADOWS 8160							3/30	63	20.0	4/27	60	20.9						
ROCKER PEAK 8000	12/28	33	7.8	1/29	38	10.3	2/23	49	13.4	3/26	51	15.2	4/25 5/15	60 EST	18.8 15.0	5/29	27	9.0
ROCKY BOY 4700	12/27	23	4.2	1/24	30	7.2	2/26	28	8.0	3/28	27	7.6	4/27	20	7.4	5/30	0	.0

MONTANA SNOW COURSE DATA - 1979 WY

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SNOW COURSE ELEVATION (feet)	JANUARY			FEBRUARY			MARCH			APRIL			MAY			JUNE		
	DATE	SNOW DEPTH	(inches) WATER CONTENT	DATE	SNOW DEPTH	(inches) WATER CONTENT	DATE	SNOW DEPTH	(inches) WATER CONTENT	DATE	SNOW DEPTH	(inches) WATER CONTENT	DATE	SNOW DEPTH	(inches) WATER CONTENT	DATE	SNOW DEPTH	(inches) WATER CONTENT
SACAJAWEA																		
6550							2/26	43	13.6	3/26	43	15.2	4/26	46	17.0			
SADDLE MOUNTAIN																		
7940	12/28	43	10.6	1/29	49	13.8	2/27	67	20.8	3/29	69	24.0	4/30	70	29.5	6/01	EST	14.0
													5/15	EST	23.0			
SENTINEL CREEK																		
8300							2/26	61	17.2	3/30	73	24.2						
SHOWER FALLS																		
8100	12/26	44	11.7	1/28	47	13.7	2/27	63	17.7	3/29	63	21.4	4/27	73	27.7	5/31	65	25.2
													5/14	68	27.2			
SILVER RUN																		
6630							3/01	28	4.6	4/03	32	6.4	5/01	0	.0	6/01	0	.0
													5/15	0	.0			
SKALKAHO SUMMIT																		
7260	12/28	49	11.8				2/27	71	22.4	4/06	74	26.3	4/27	71	29.2	5/30	27	12.4
													5/14	58	24.4			
SLAG-A-MELT LAKE																		
8750							3/02	78	19.2	4/06	64	23.0	4/27	75	28.5			
SLIDE ROCK MOUNTAIN																		
7100							2/27	50	14.8	3/28	52	16.2	4/27	56	20.1			
SMUGGLER MINE																		
6960							2/28	35	8.0	4/02	35	9.3	5/02	32	11.0			
SOUTH FORK SHIELDS																		
8100							3/05	73	24.6	3/27	73	28.0	4/27	83	33.6			
													5/10	80	32.6			
SPOTTED BEAR MOUNTAIN																		
7000	1/03	30	7.6	2/02	43	12.1	3/03	53	15.7	4/08	50	17.7	5/03	35	12.4	5/27	0	.0
													5/12	25	11.7			
SPUR PARK																		
8000	12/27	41	10.7	2/01	EST	14.0	2/28	64	19.6	3/28	64	22.5	4/25	70	27.0	6/01	EST	17.0
													5/15	EST	25.5			
STAHL PEAK																		
6050	12/26	48	12.9	1/30	54	15.8	3/01	91	28.0	3/30	86	30.0	4/27	93	36.9	5/29	49	25.4
													5/14	79	37.0			
STAR LAKE E																		
9650										4/05	115	39.0A	5/03	111	46.5A	5/29	84	40.0
													5/15	99	47.5A			
STEMPLE PASS																		
6600							2/28	46	11.8	3/30	47	12.5	5/01	50	15.9			
STORM LAKE																		
7780	12/27	23	5.2	2/02	32	7.6	2/27	42	10.3	3/30	44	11.8	4/30	47	16.0			
STRYKER BASIN																		
6180				1/30	51	14.0	2/27	82	23.9	3/27	75	25.6	4/27	80	31.9	5/29	41	18.5
STUART MILL																		
6500				1/30	26	5.2	2/28	29	7.2	3/31	25	8.1	5/01	13	4.3			

MONTANA SNOW COURSE DATA - 1979 WY

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SNOW COURSE ELEVATION (feet)	JANUARY			FEBRUARY			MARCH			APRIL			MAY			JUNE			
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STUART MOUNTAIN	7400			2/01	64	19.4	3/01	85	28.9	4/06	87	33.0	4/30 5/15	80 73	33.4 33.1	5/31	38	18.2	
SUCKER CREEK	3960	12/27	10	1/24	13	2.5	2/26	0	.0	3/28	6	.4	4/27	0	.0				
SUGARLOAF	7350						2/22	40	9.5	3/27	35	10.5	4/25	45	16.4				
TAYLOR PEAKS	8500												4/24	57	20.3				
TAYLOR ROAD	4080	12/27	22	1/24	31	6.4	2/26	29	7.4	3/28	19	4.2	4/27	0	.0				
TEN MILE LOWER	6600	12/29	28	1/29	32	7.2	2/27	34	9.2	3/29	38	10.1	4/30	28	9.7				
TEN MILE MIDDLE	6800	12/29	32	1/29	38	9.0	2/27	41	11.2	3/29	54	14.1	4/30	46	15.8				
TEN MILE UPPER	8000	12/29	33	1/29	39	9.5	2/27	45	13.0	3/29	52	15.0	4/30	53	18.9				
TEPEE CREEK	8000	12/29	25	2/01	EST	6.0	3/02	59	13.4	3/30	53	15.5	4/30 5/15	48 EST	17.0 12.0	6/01	EST	7.0	
TIMBERLINE CREEK	8850						3/01	38	6.8	3/30	50	12.6	4/30 5/15	46 39	13.9 11.3				
TRAIL CREEK	7090						3/04	39	9.4	4/01	37	9.4	4/26	43	12.0				
TRINKUS LAKE	6100	1/03	52	2/02	73	23.0	3/04	108	38.0	4/06	109	43.0	5/03 5/12	94 92	43.6 43.9	5/27	55	29.7	
TV MOUNTAIN	6800	12/27	36	2/01	44	11.8	3/01	60	18.6	4/06	64	20.6	4/30 5/15	58 45	22.6 18.5	5/31	21	9.3	
TWELVEMILE CREEK	5600	1/04	45	1/31	52	17.8	2/28	67	23.5	3/28	52	23.8	5/01	32	15.5	6/01	EST	.0	
TWENTY-ONE MILE	7150	12/30	29	1/28	38	9.6	2/25	55	14.4	3/31	54	18.6	4/28	38	16.8				
TWIN CREEKS	3580	12/31	27	6.0A	1/26	33	8.5A	3/03	41	14.1	4/08	33	12.7	5/03 5/12	7 0	2.5 .0	5/27	0	.0
TWIN LAKES	6510	1/04	66	2/01	EST	23.0	2/28	114	38.3	3/28	97	38.4	5/01 5/15	95 EST	43.8 41.0	6/01	EST	28.0	
UPPER HOLLAND LAKE	6200	1/03	52	2/02	61	20.5	3/04	88	30.4	4/06	99	36.4	5/03 5/12	85 79	38.9 36.2	5/27	51	23.8	

MONTANA SNOW COURSE DATA - 1979 WY

SNOW COURSE ELEVATION (feet)	JANUARY			FEBRUARY			MARCH			APRIL			MAY			JUNE		
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WALDRON	5600 1/06	26	6.6	2/01	EST	6.5	3/05	39	10.0	4/02	37	11.6	4/30	20	7.6	6/01	EST	.0
													5/15	EST	2.5			
WARM SPRINGS	8250 1/04	35	9.0	2/05	48	11.9	2/28	54	15.3	4/02	62	18.2	4/27	62	21.8	6/04	25	8.6
													5/16	50	20.0			
WEASEL DIVIDE	5450 12/26	36	8.6	1/30	42	11.1	3/01	77	22.4	3/30	67	23.1	4/27	69	28.7	5/29	22	10.9
													5/14	51	23.6			
WEST ROSEBUD	7500			1/29	35	8.9	3/09	35	12.1	4/01	39	13.1						
WEST YELLOWSTONE	6700 12/30	24	4.8	1/28	32	7.8	2/25	43	11.4	3/31	42	14.2	4/28	23	10.1			
WHISKEY CREEK	6800 1/04	40	8.9	2/01	46	12.3	2/27	65	19.0	3/29	66	23.7	4/24	48	22.1	6/01	EST	.0
													5/14	28	13.0			
WHITE MILL	8700 12/28	52	14.2	2/01	EST	16.0	3/02	98	25.0	3/30	91	28.5	4/30	77	30.8	5/30	58	26.4
													5/16	70	31.4			
WHITE PINE RIDGE	8850						3/04	30	6.5	4/01	28	6.0	4/25	29	6.8			
WILLOW CREEK	6500 1/02	29	6.2	1/31	35	7.4	2/28	35	8.6	3/29	39	11.0	5/01	23	7.8			
WRONG CREEK	5700						2/28	52	14.8	3/29	51	15.5	4/25	42	17.4			
WRONG RIDGE	6800						3/01	62	18.1	3/28	65	20.7	4/26	64	22.9			

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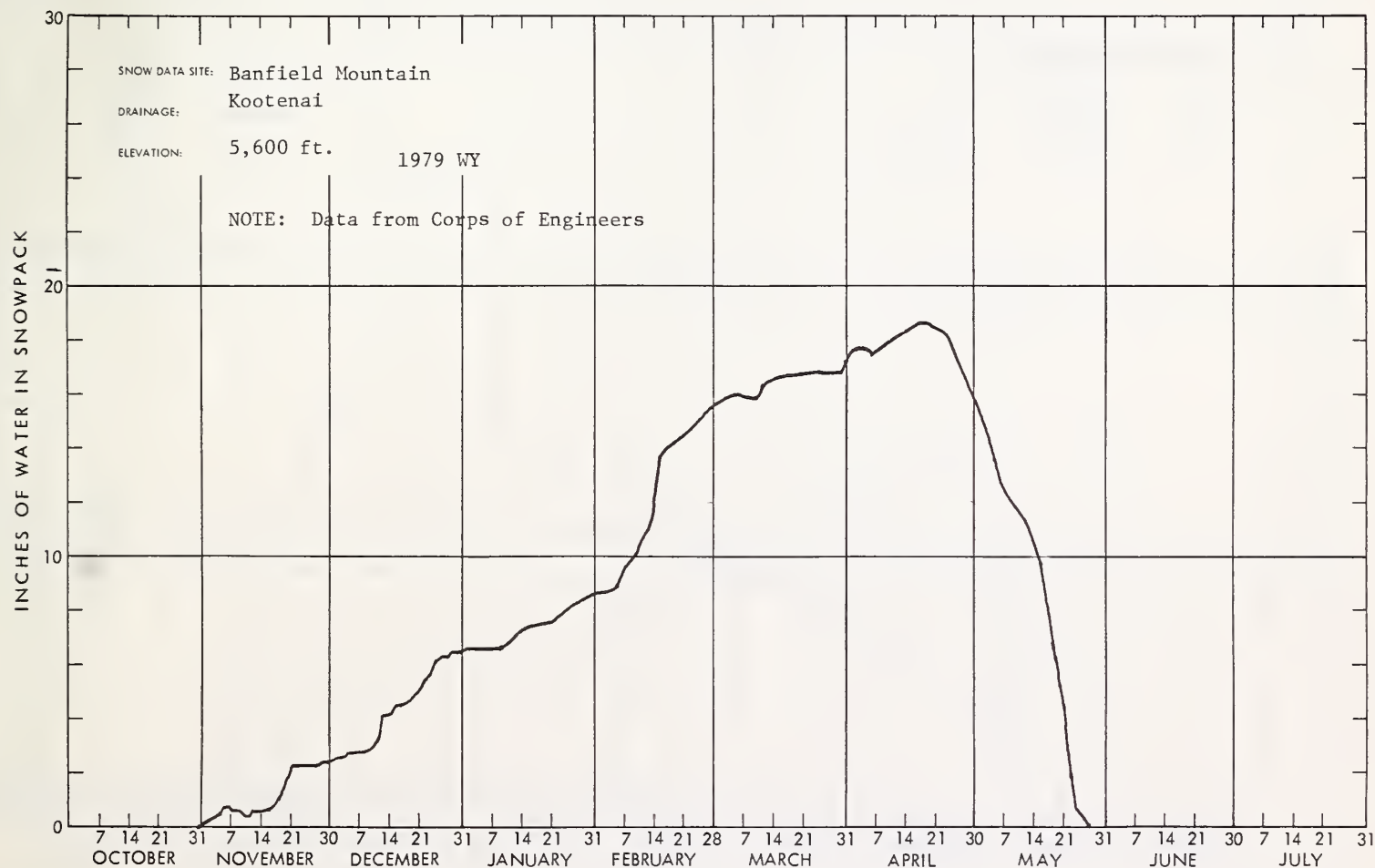
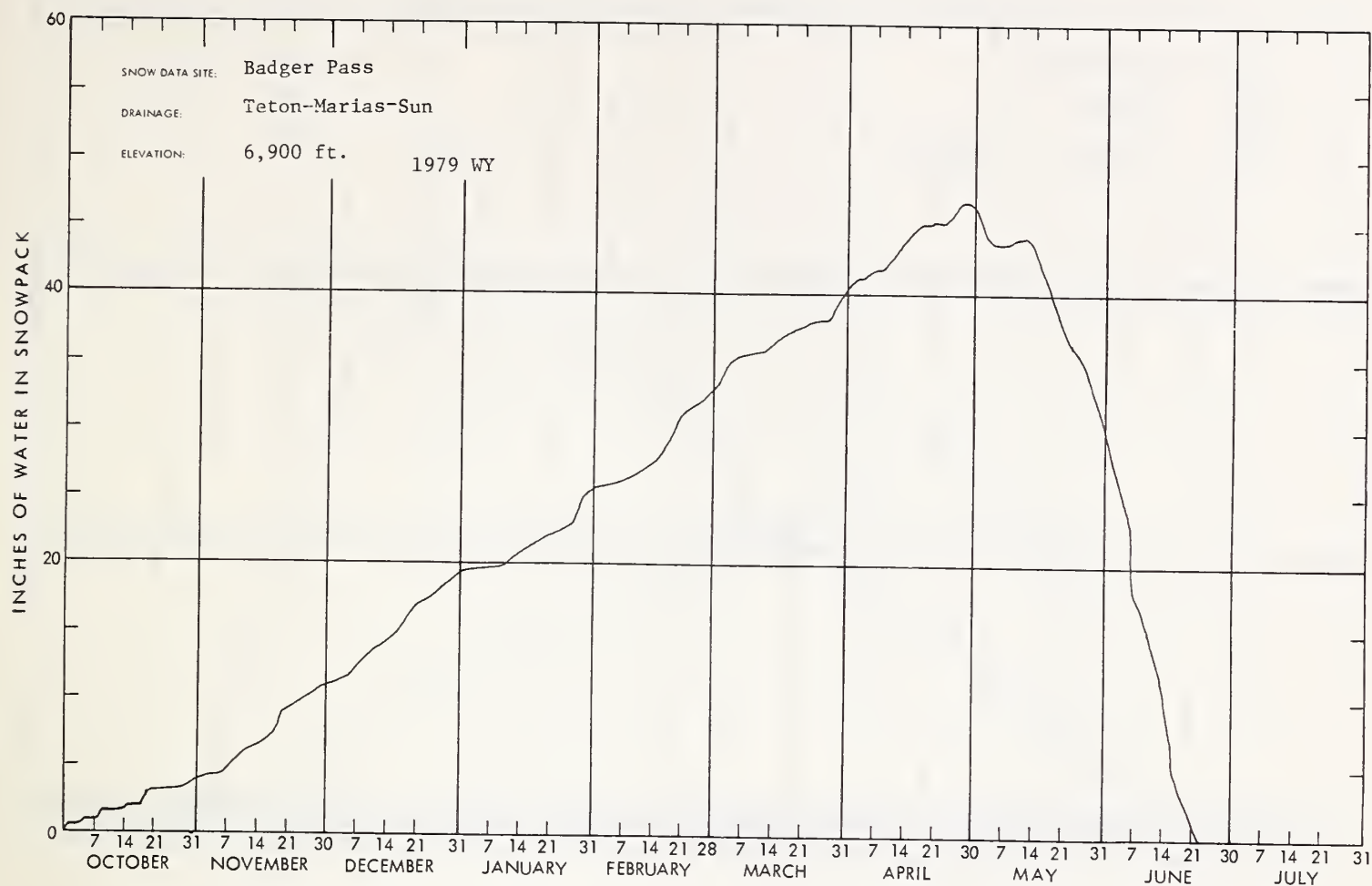
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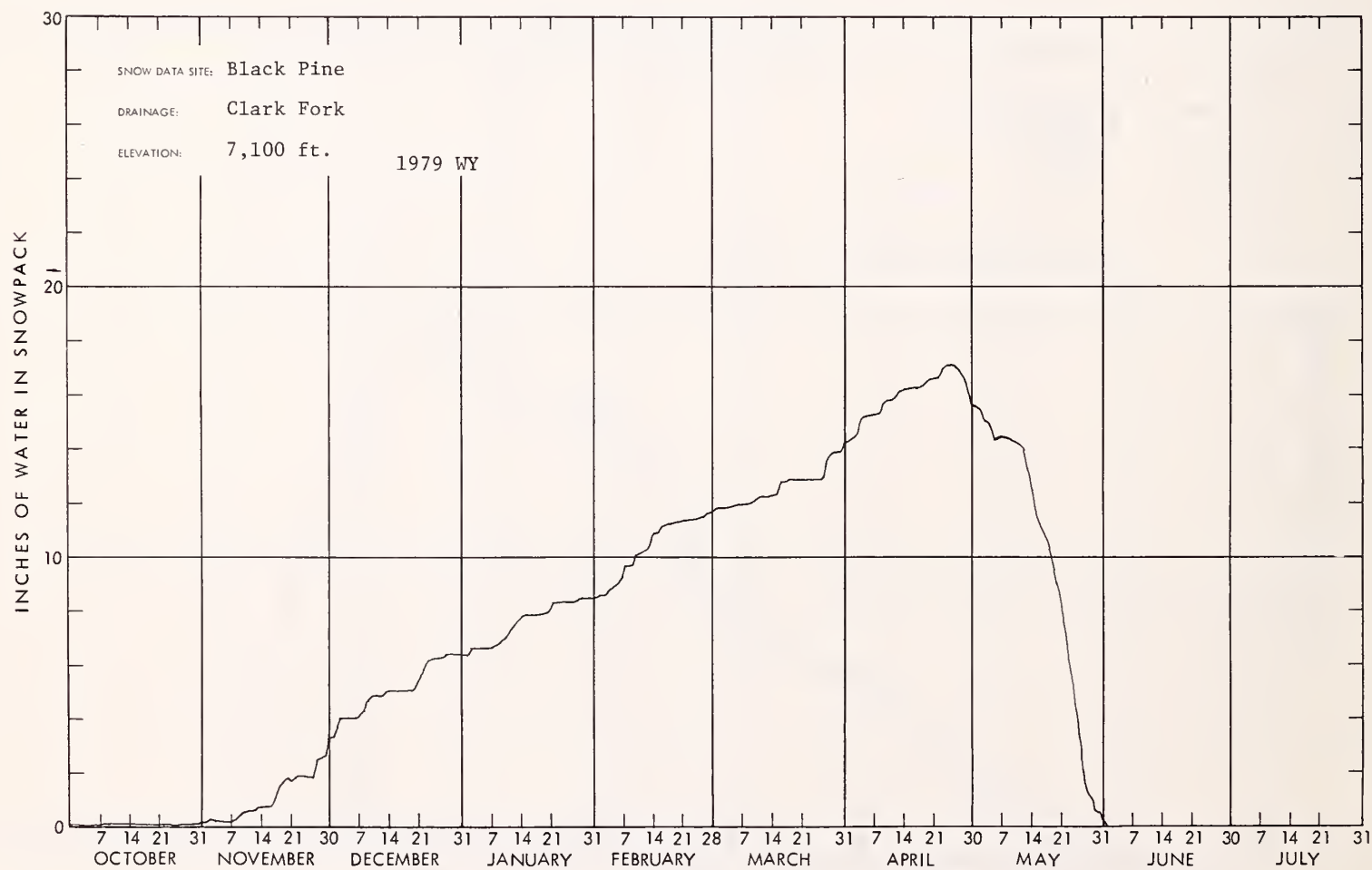
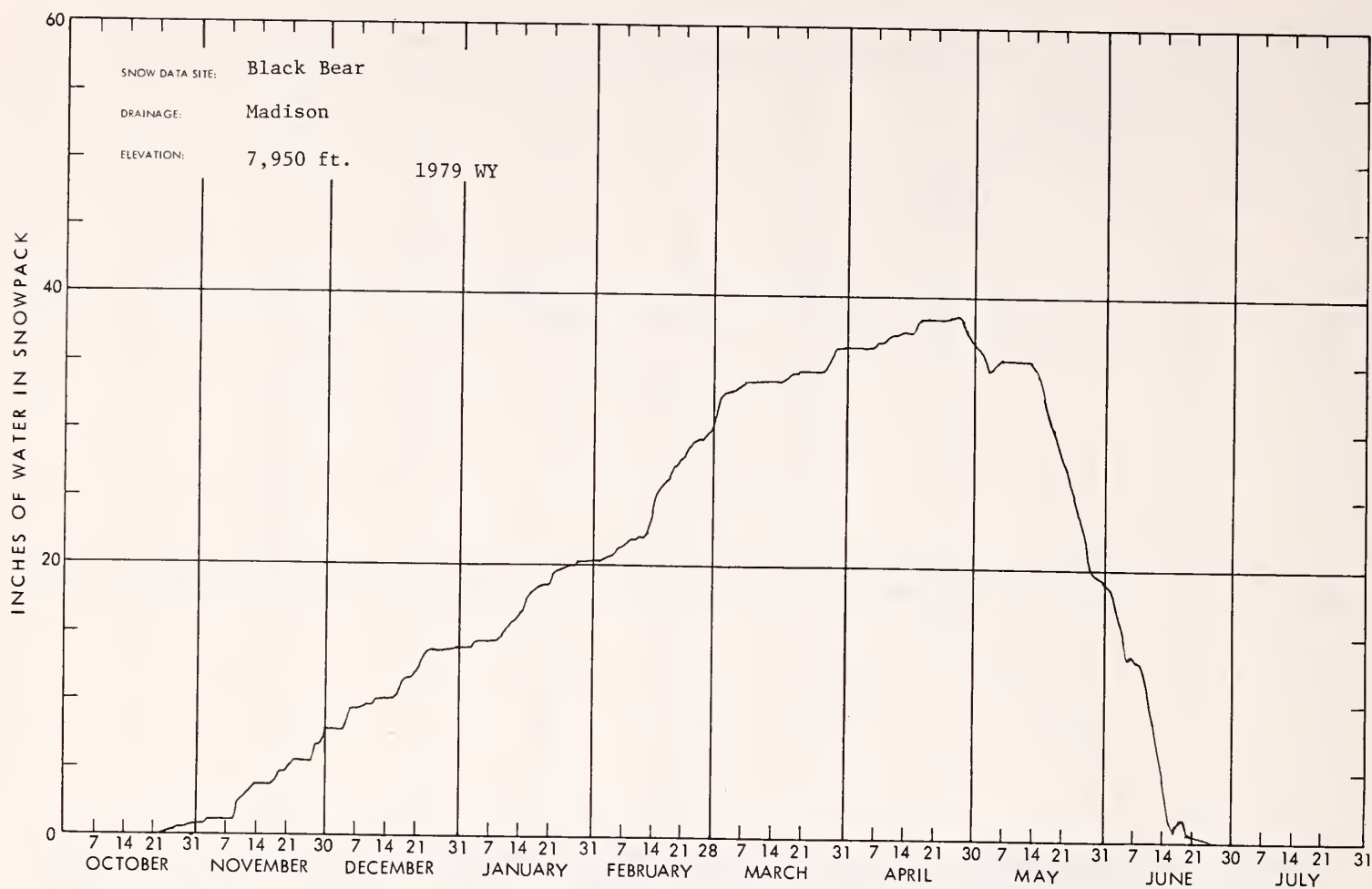
SNOW PILLOW

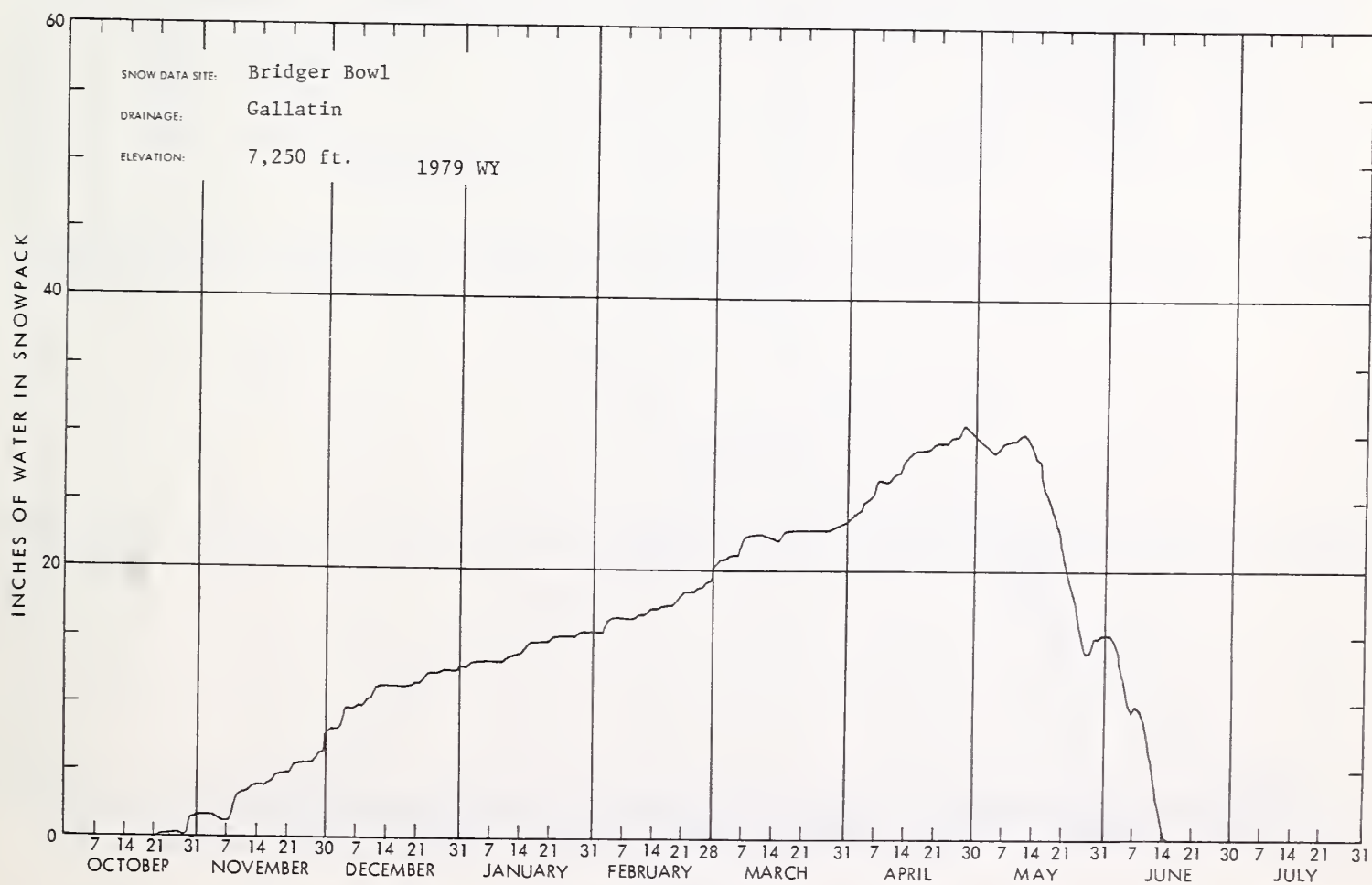
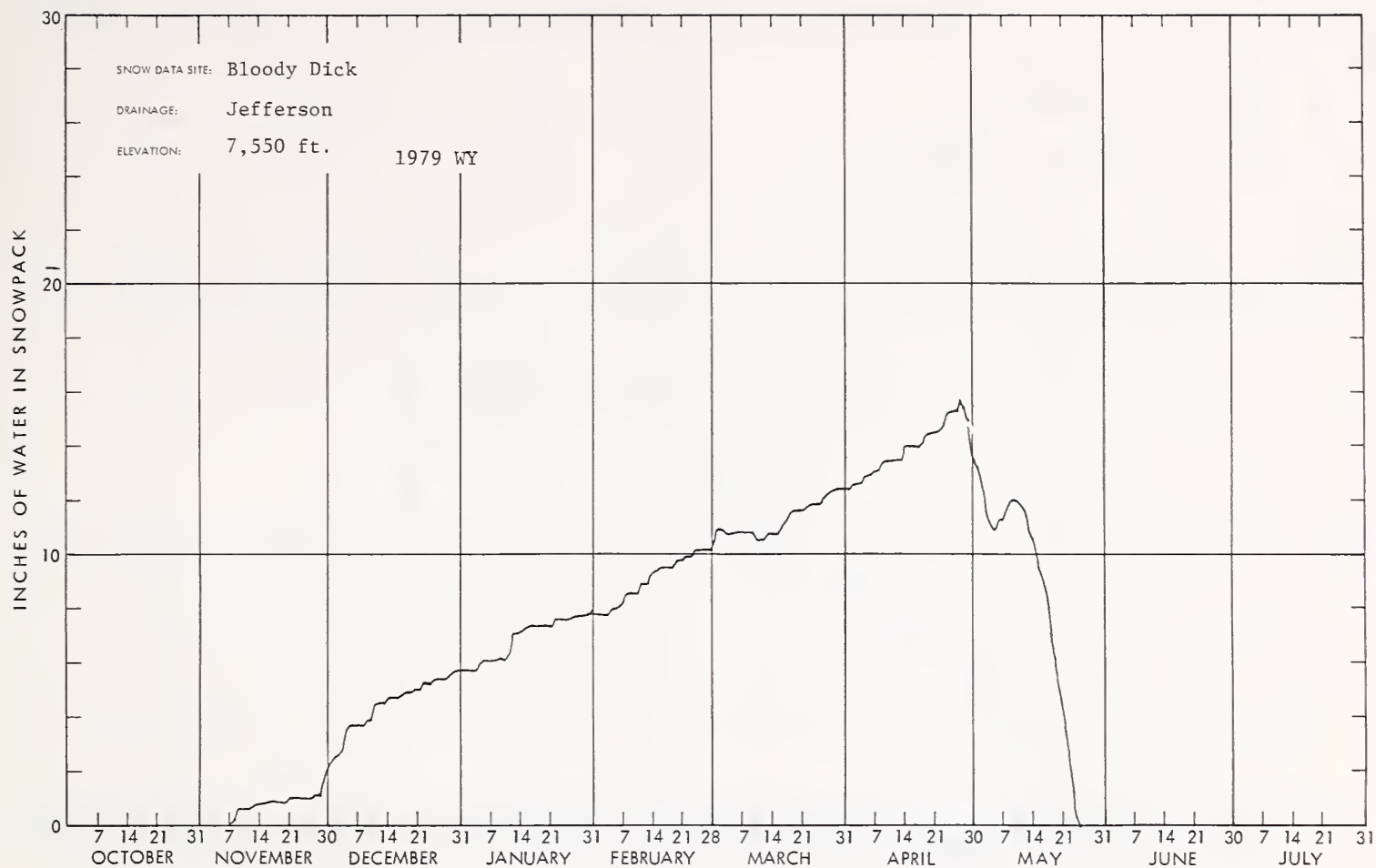
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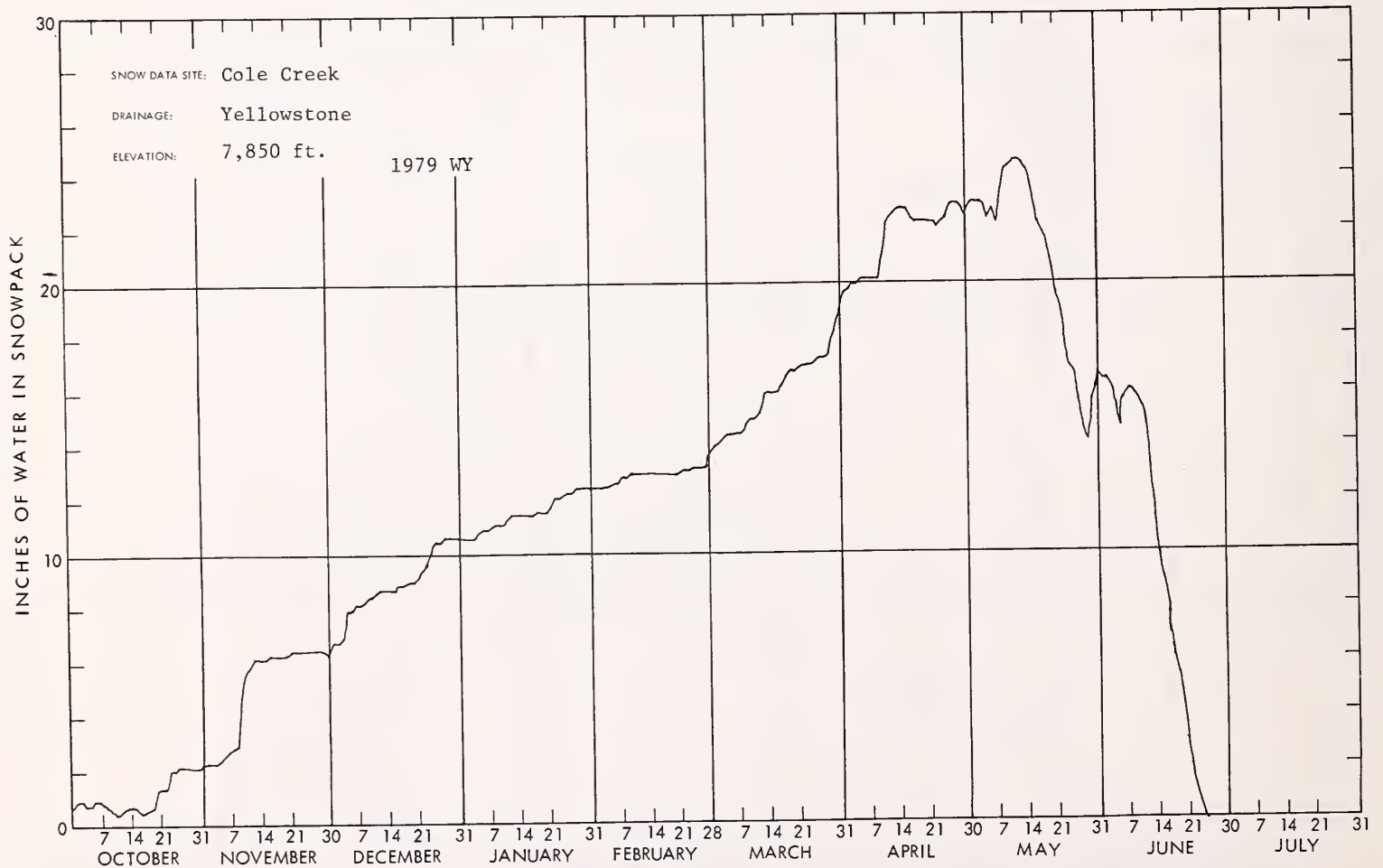
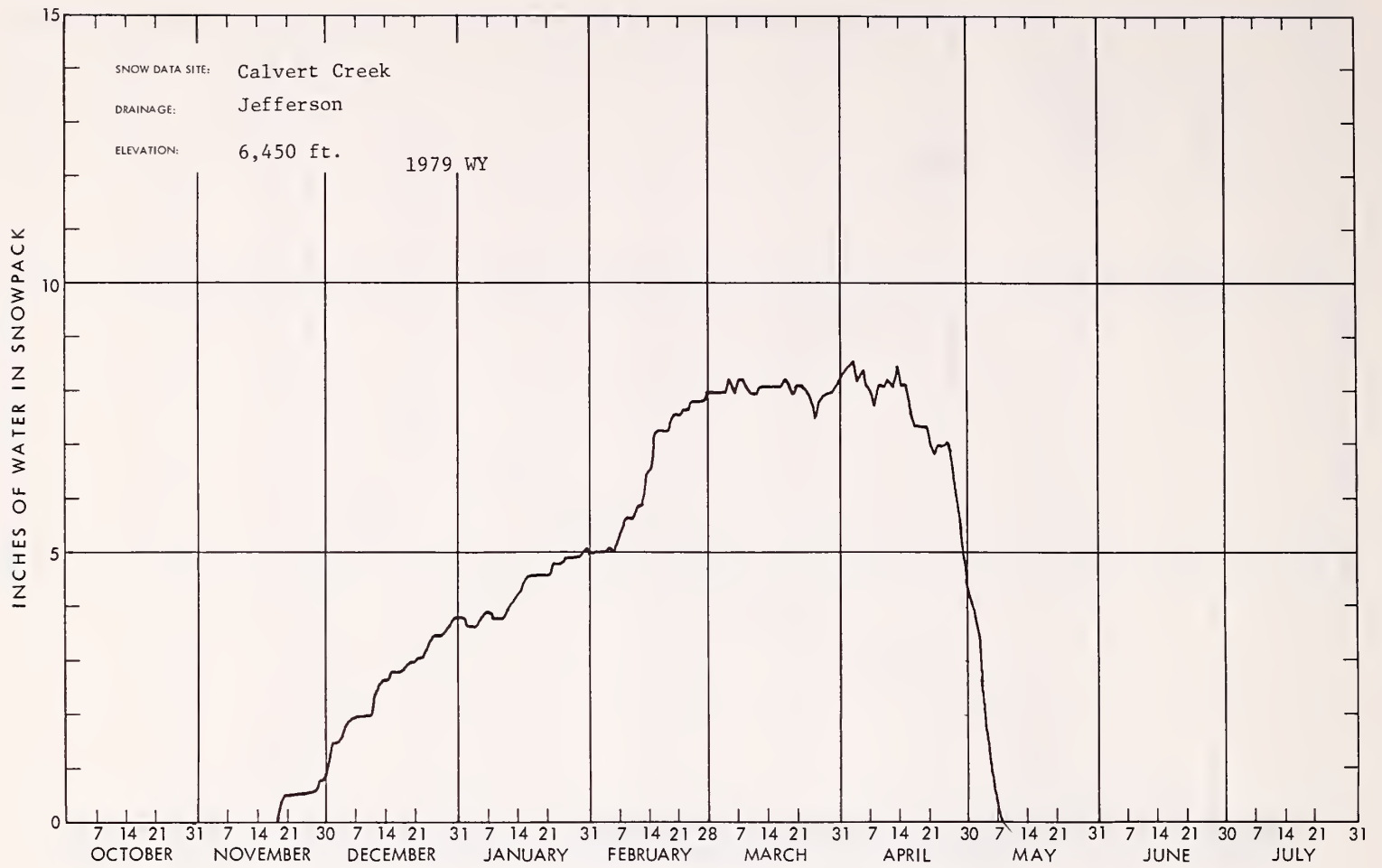
WOLFF, Adolf

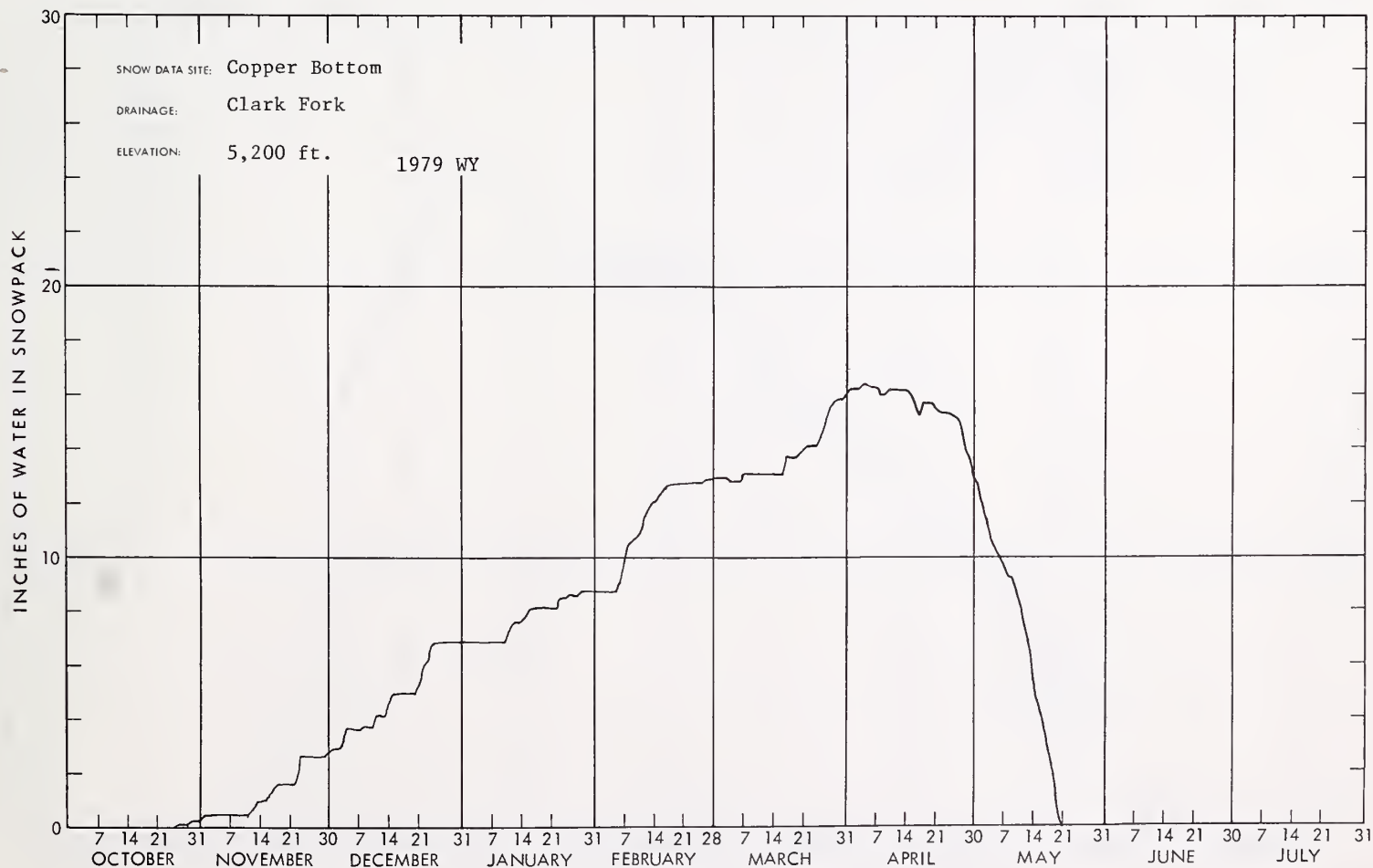
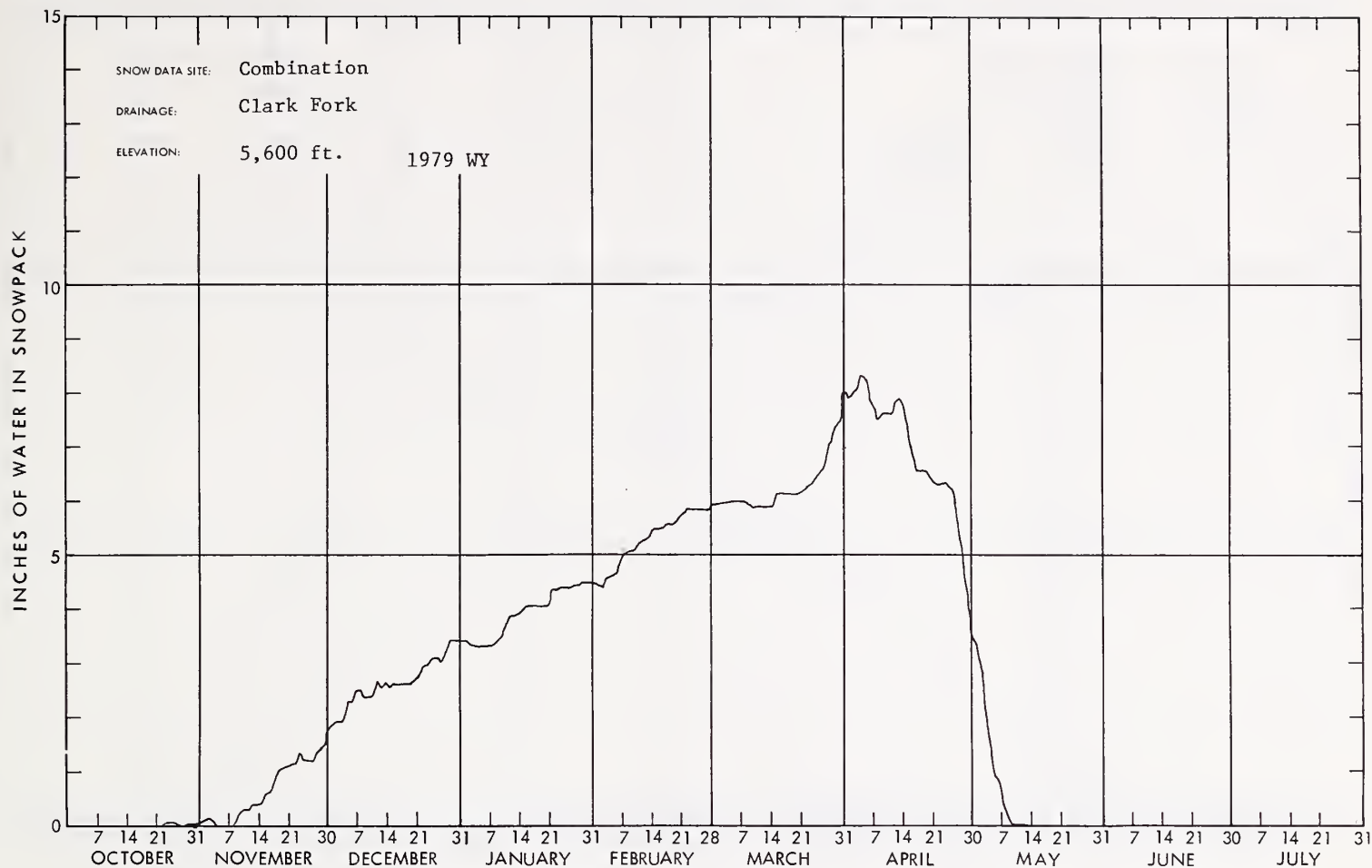
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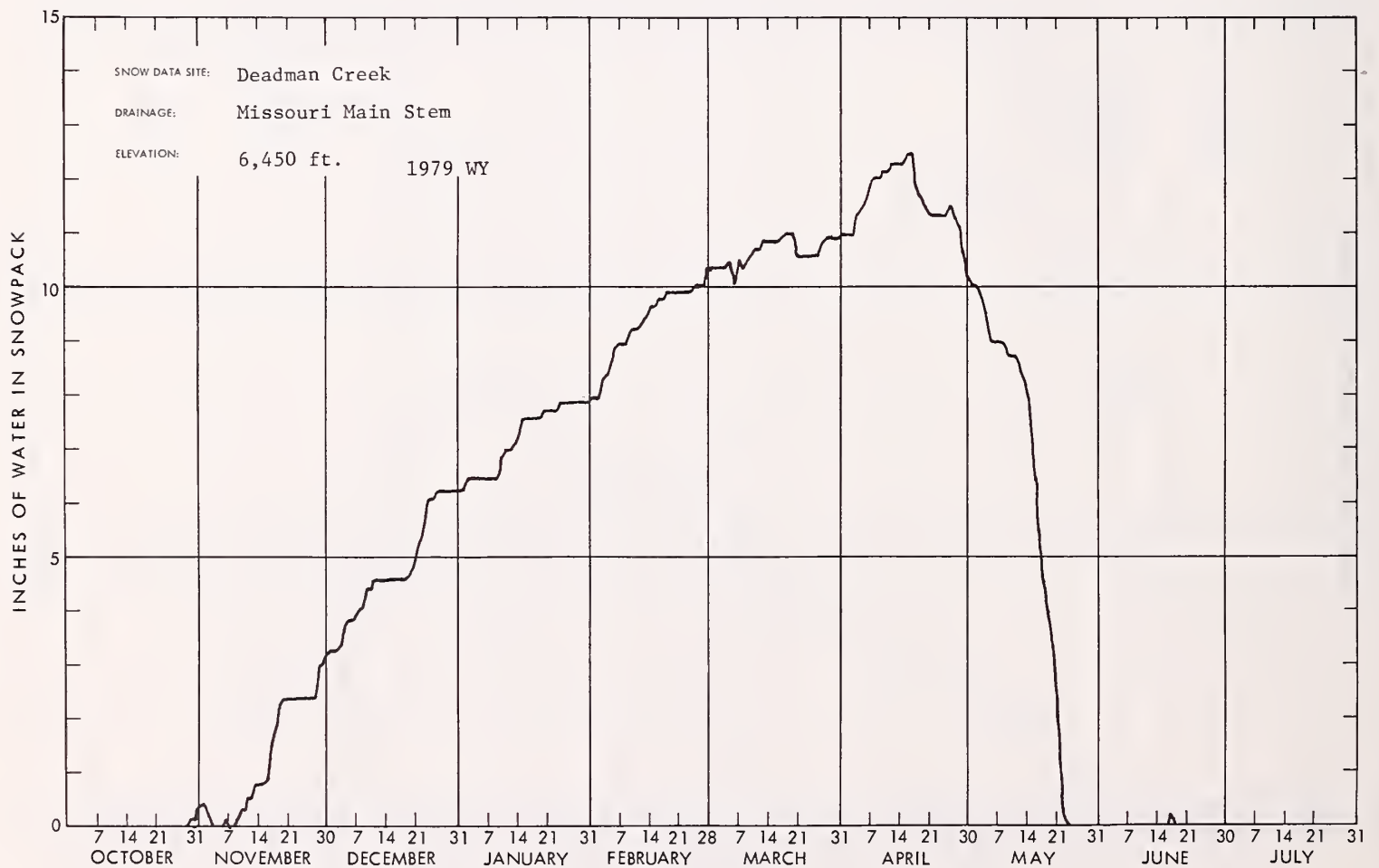
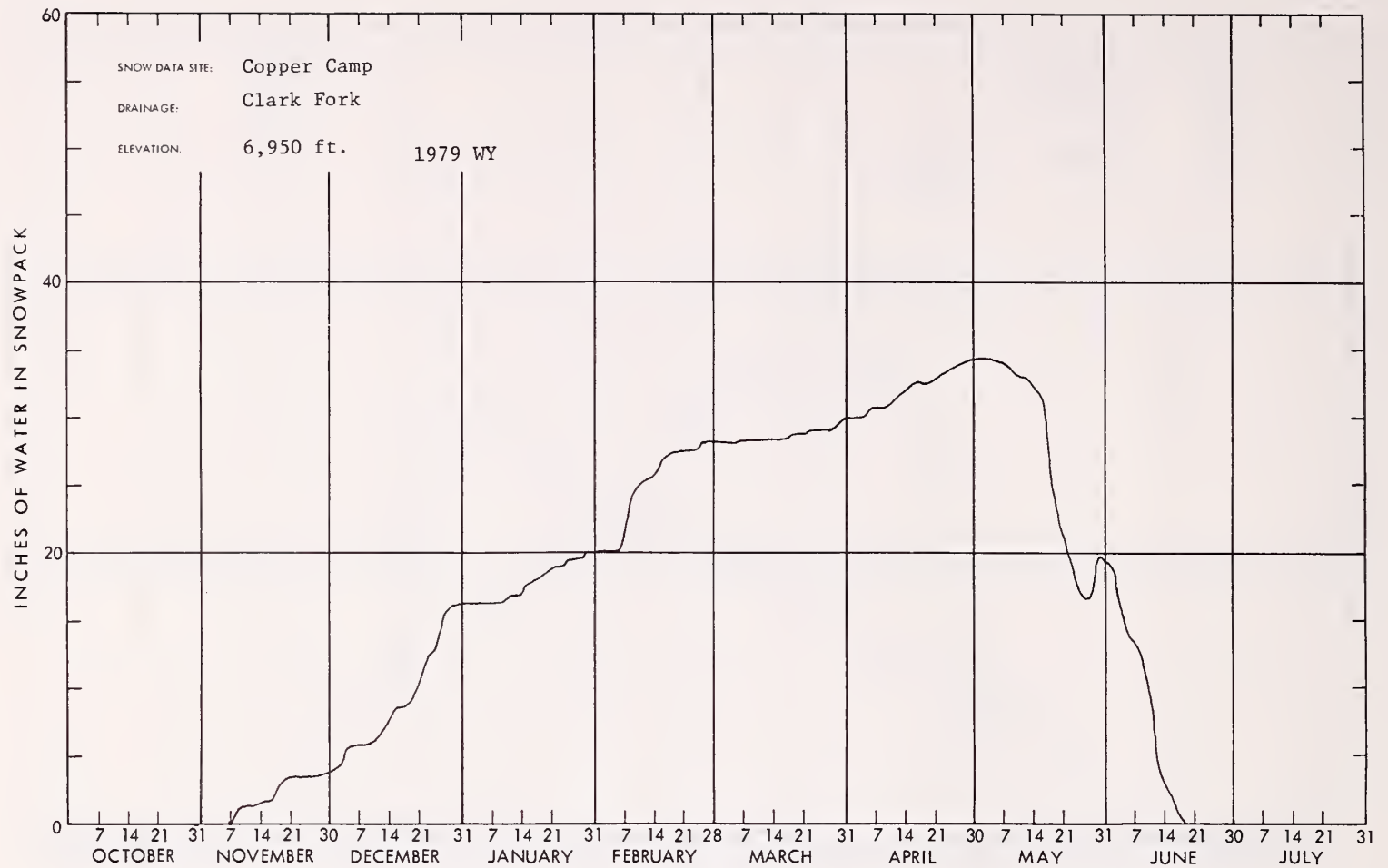


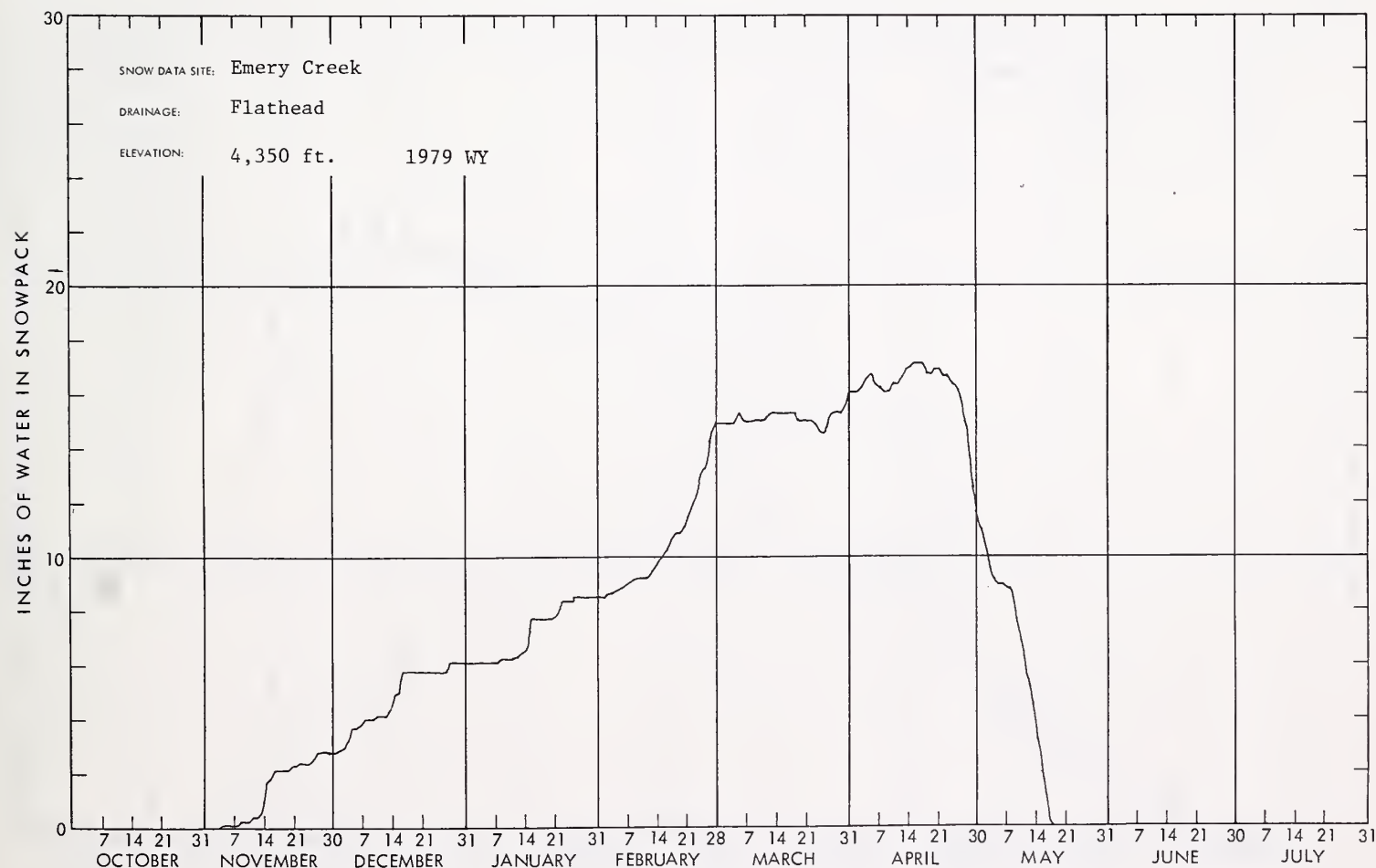
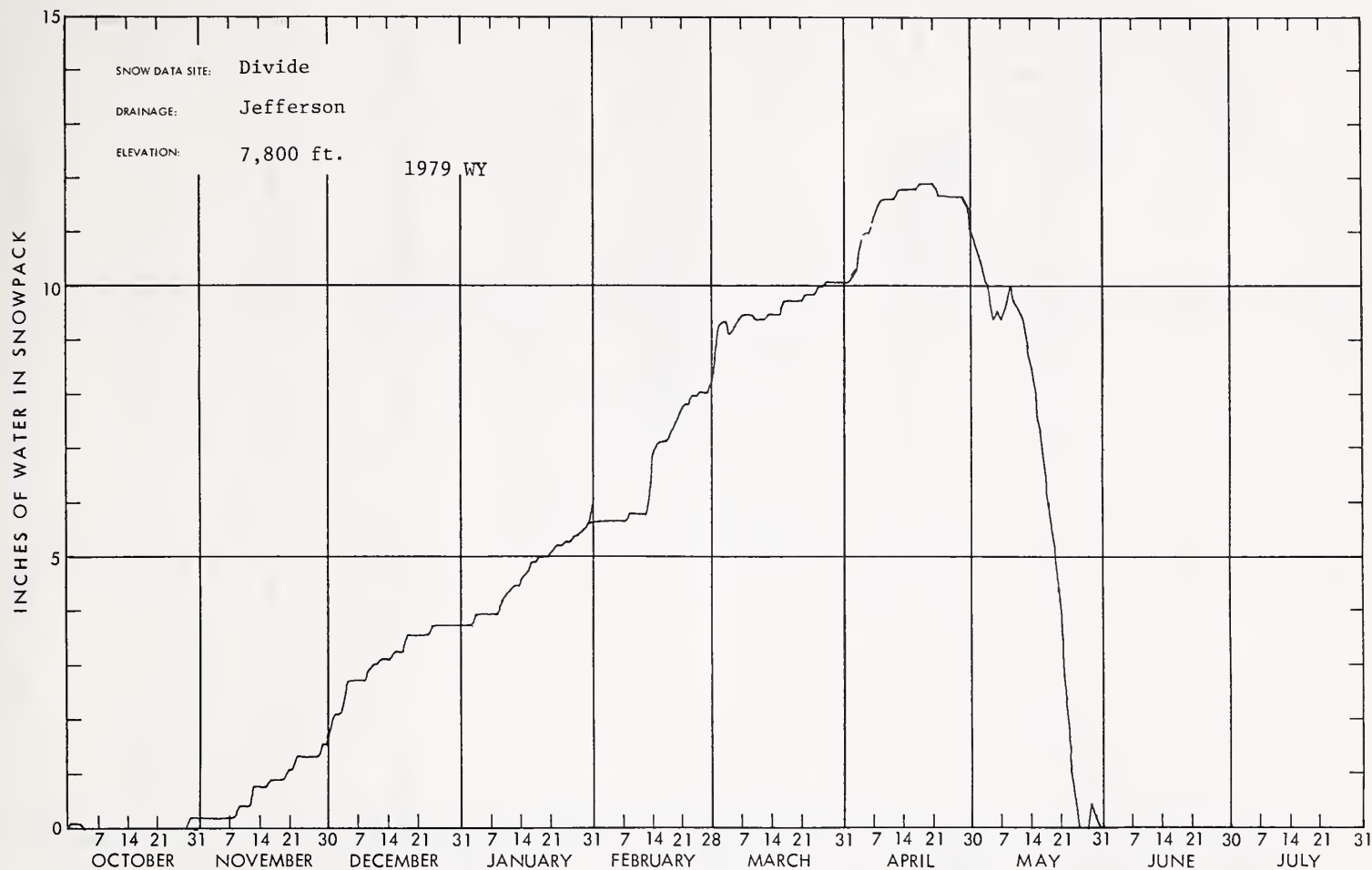


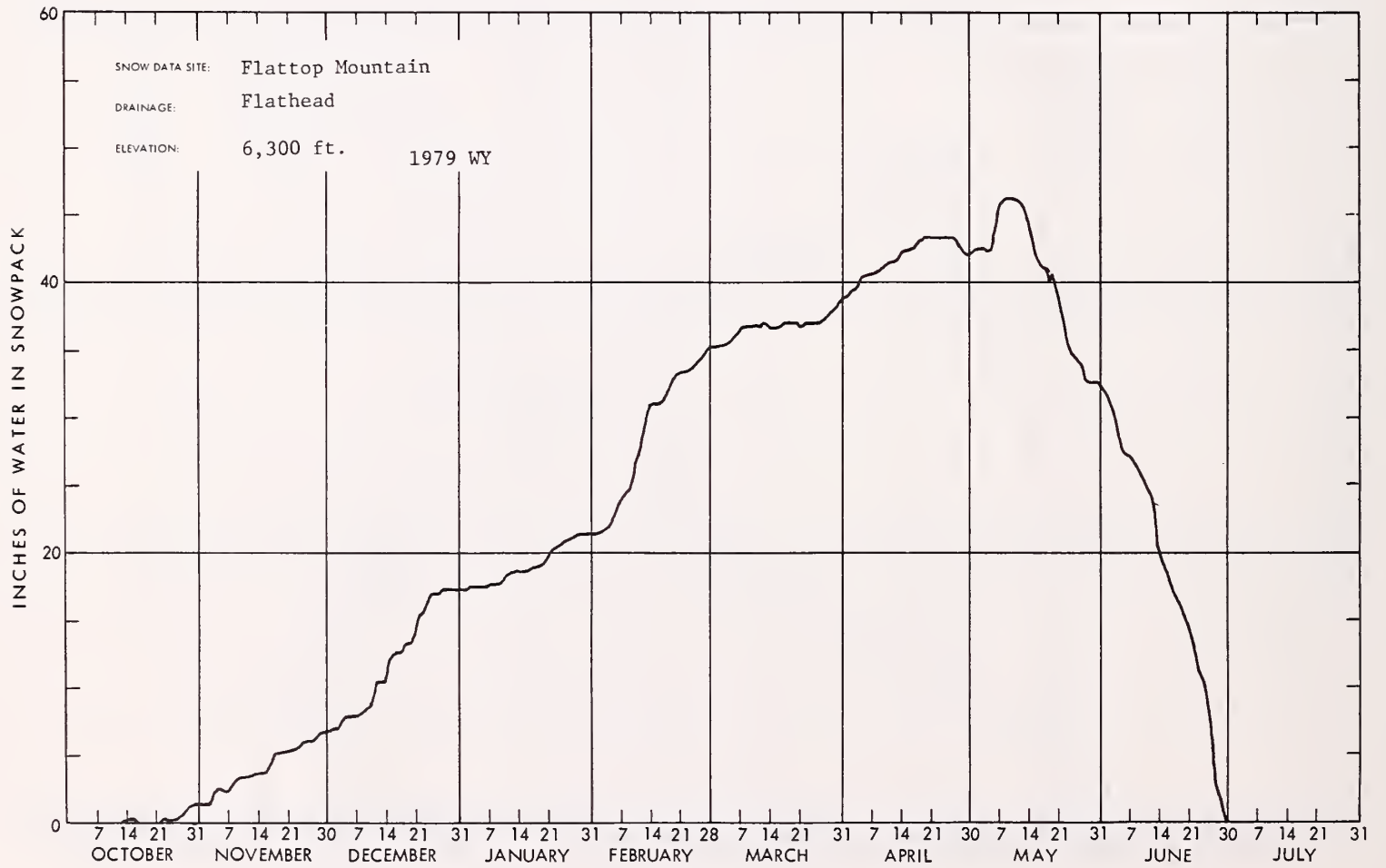
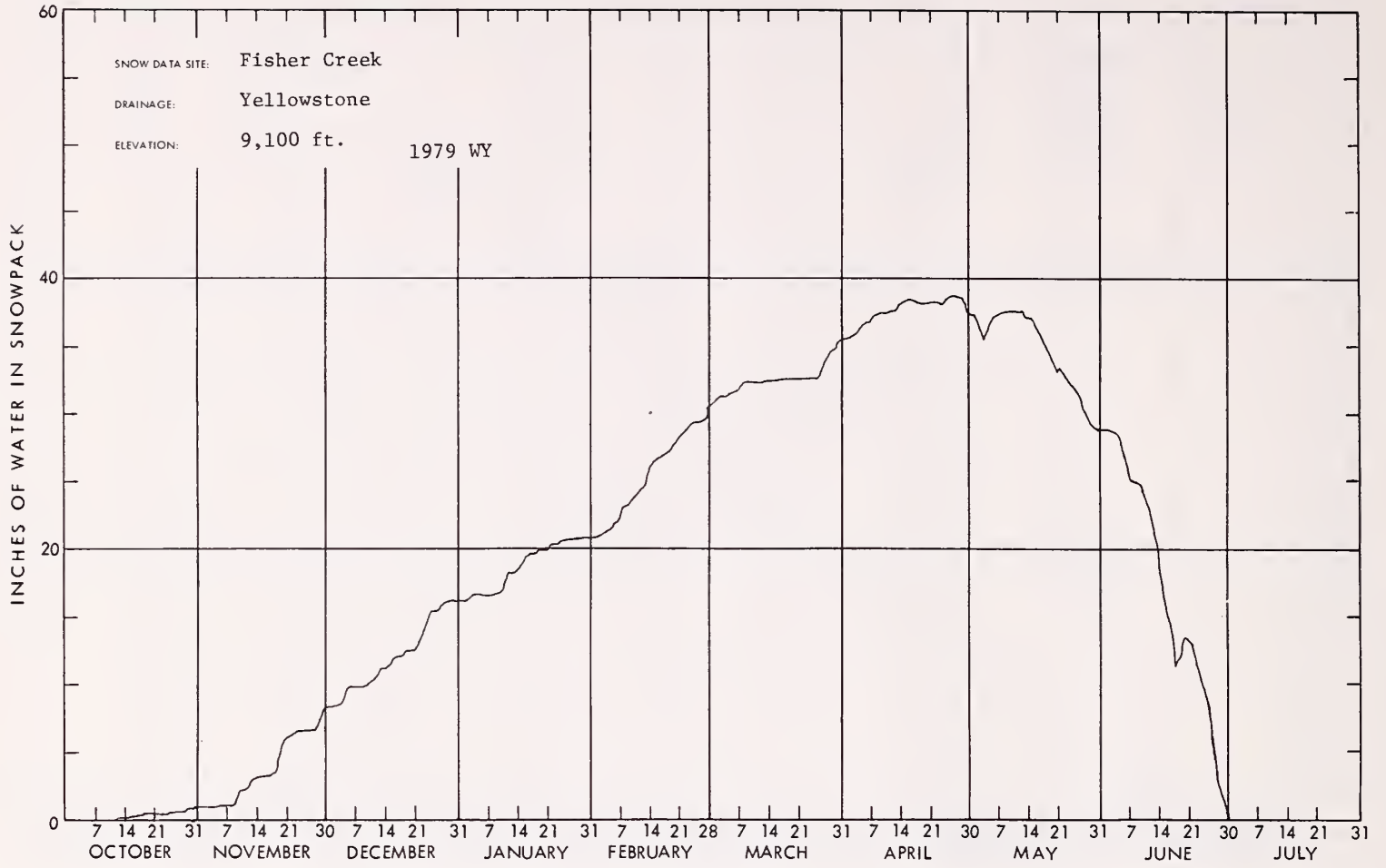


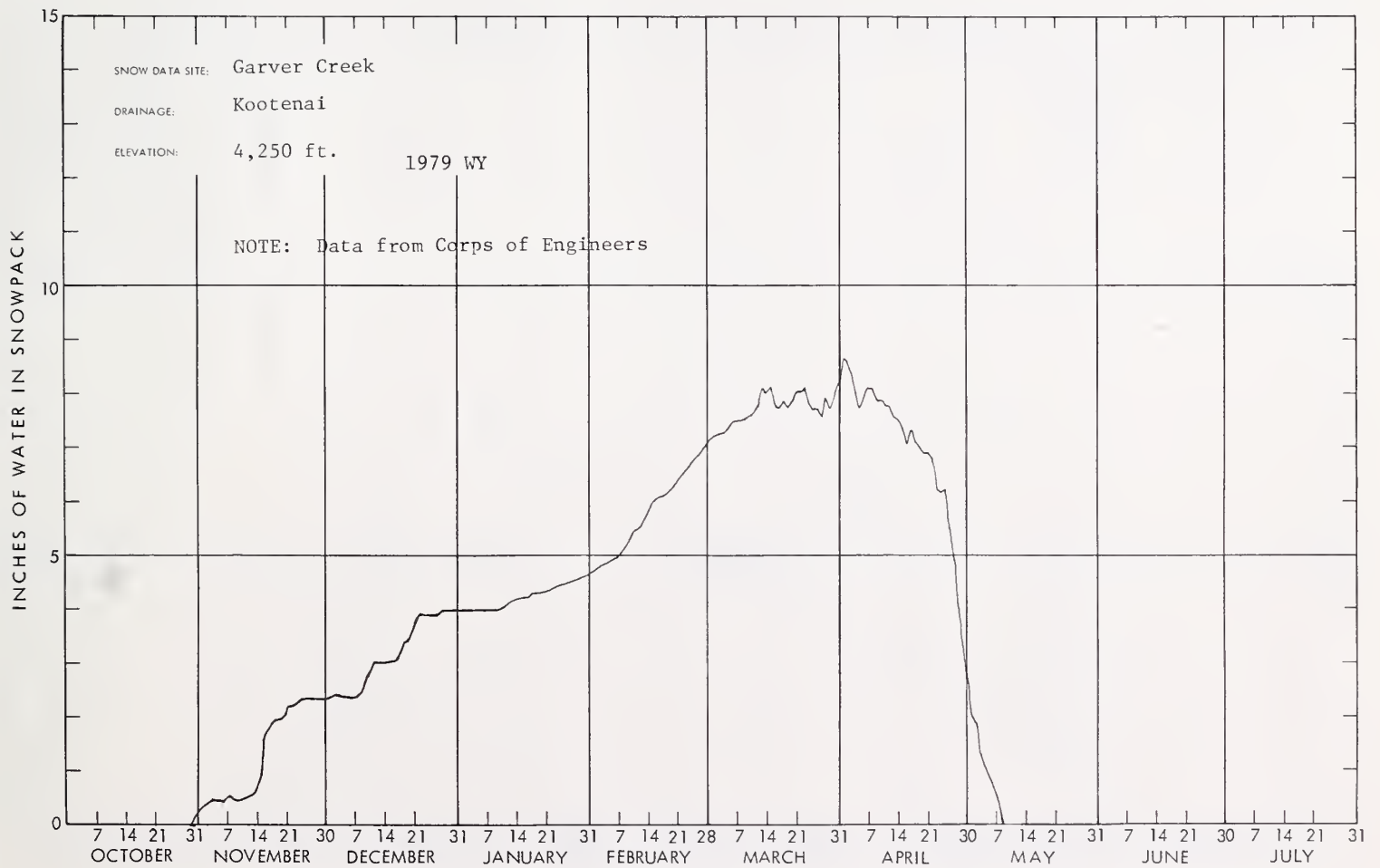
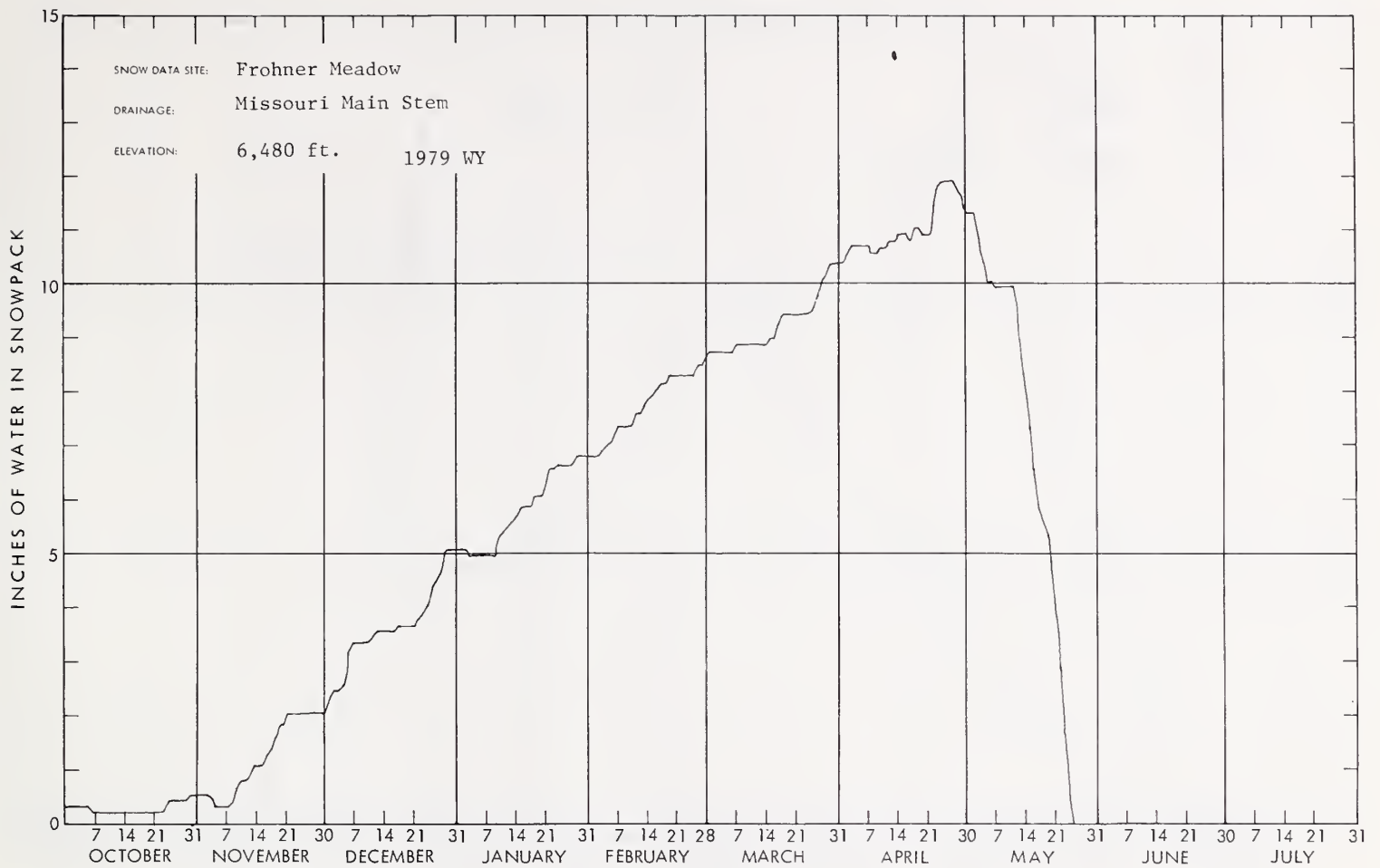


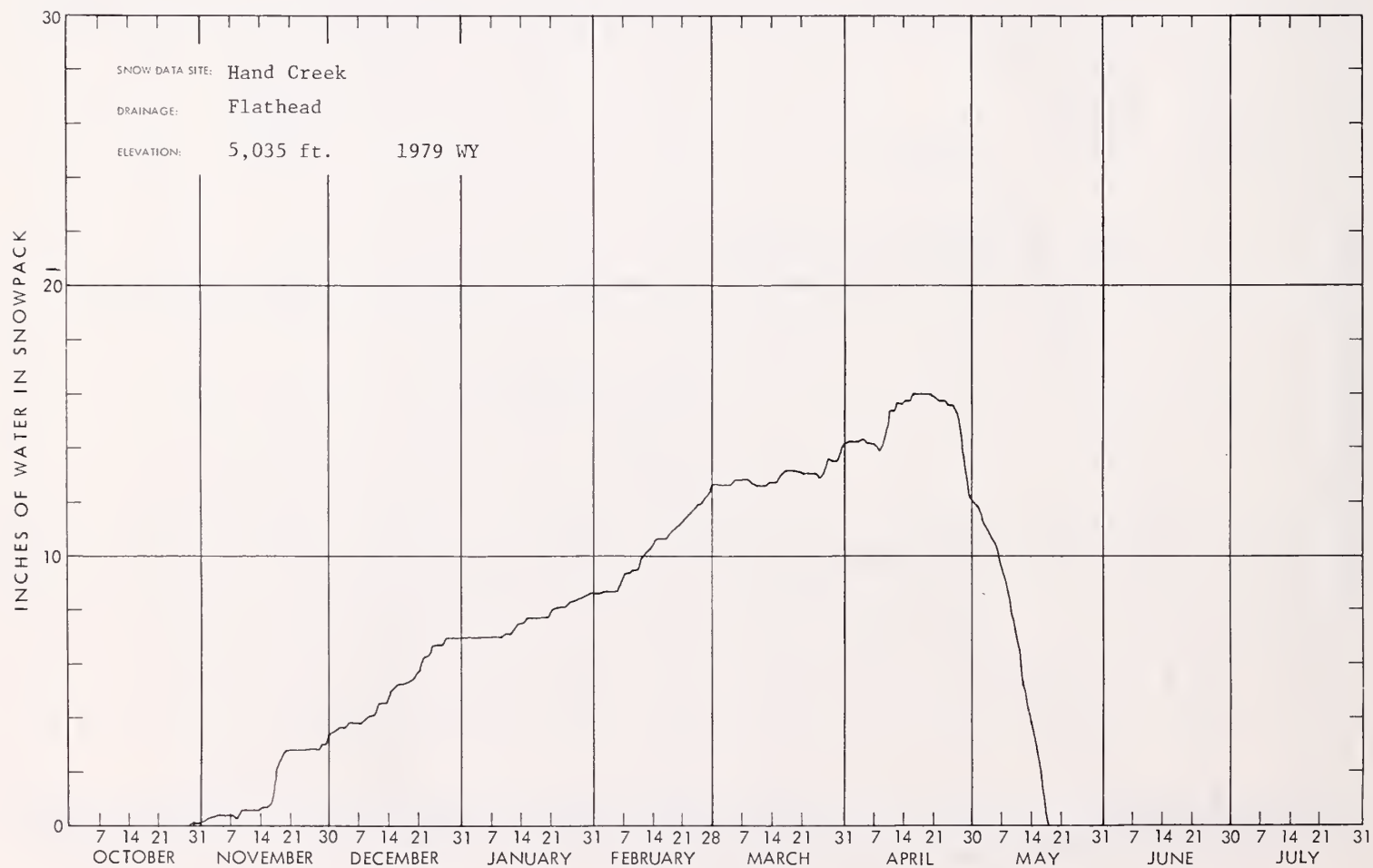
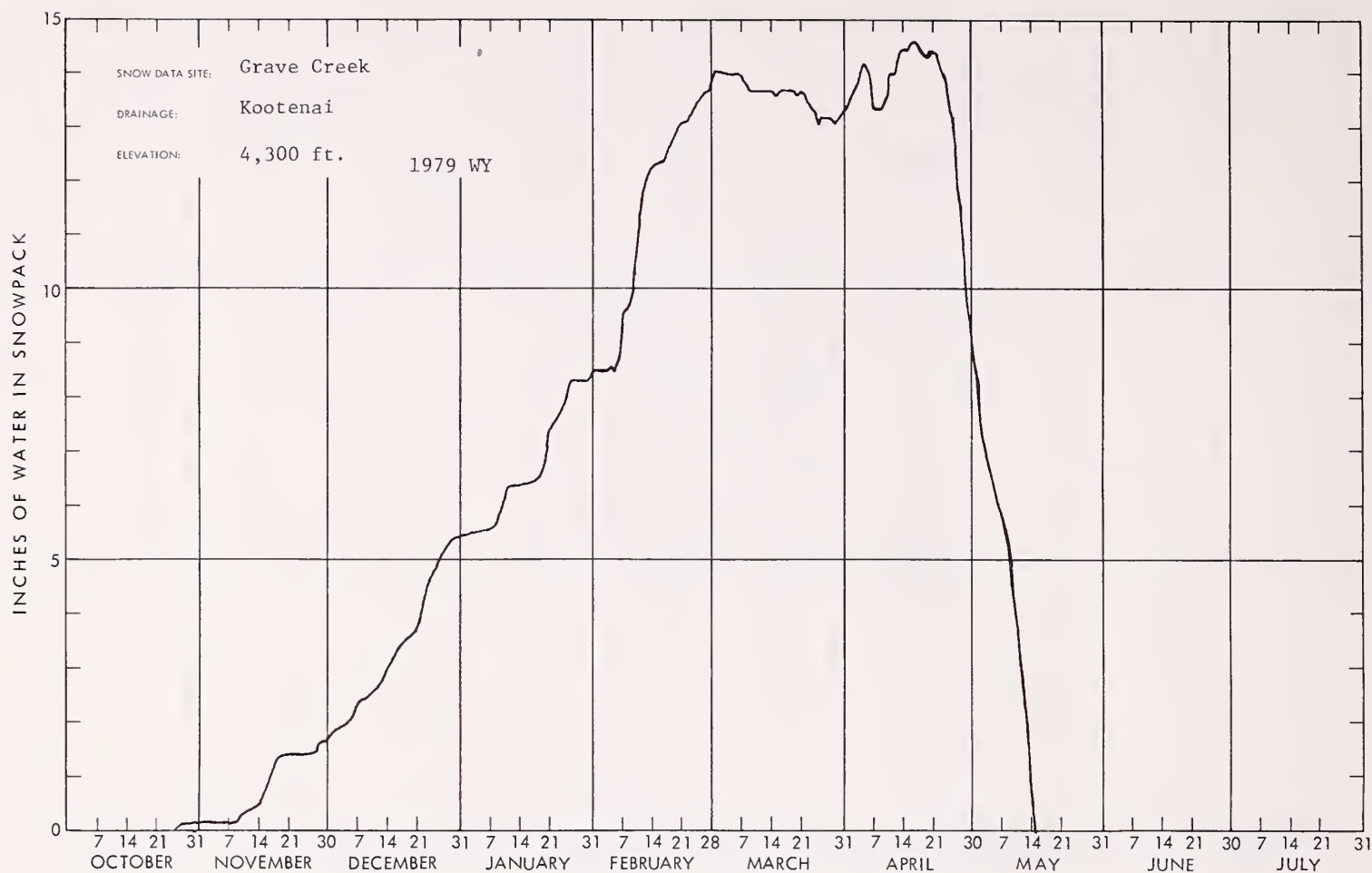


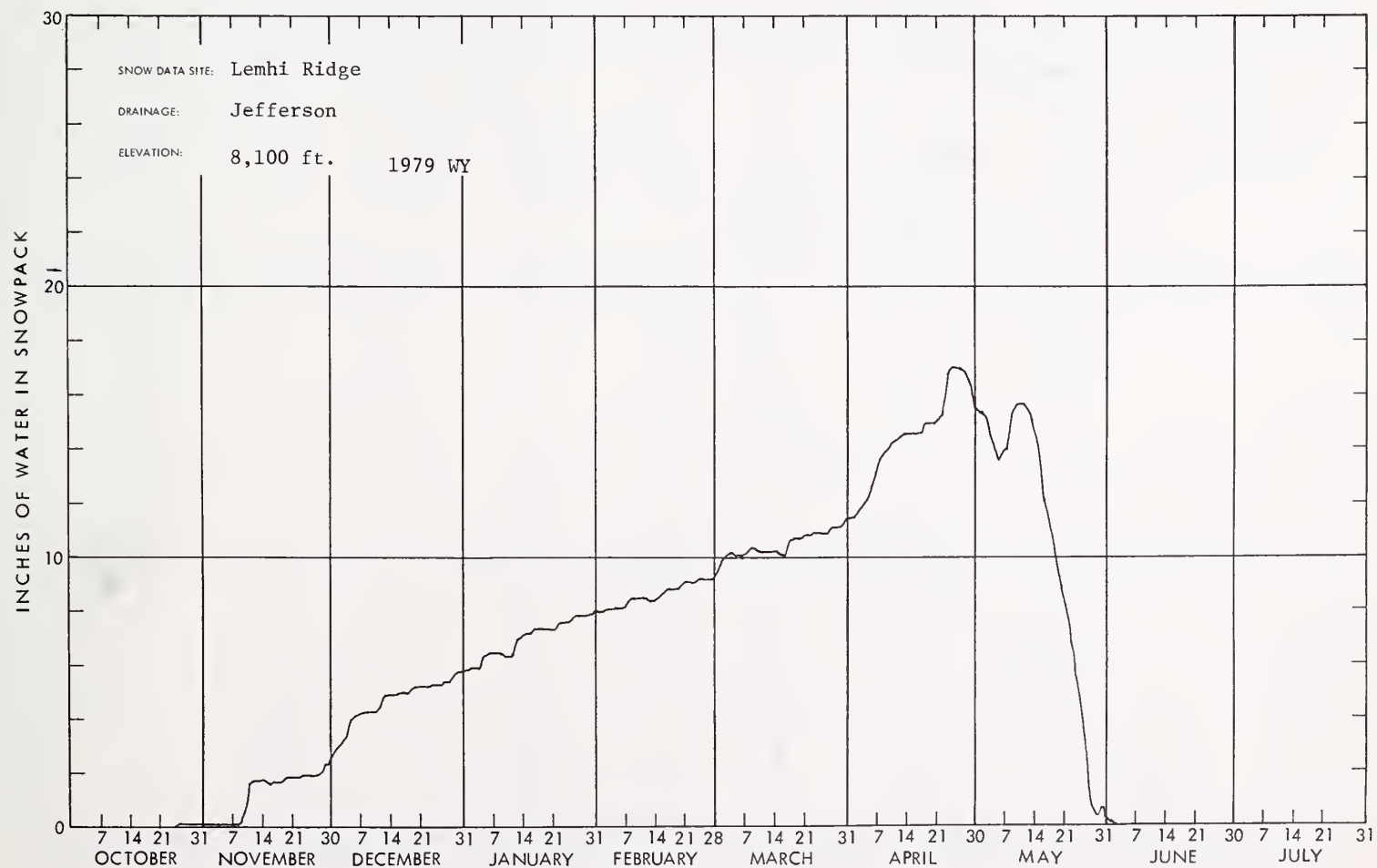
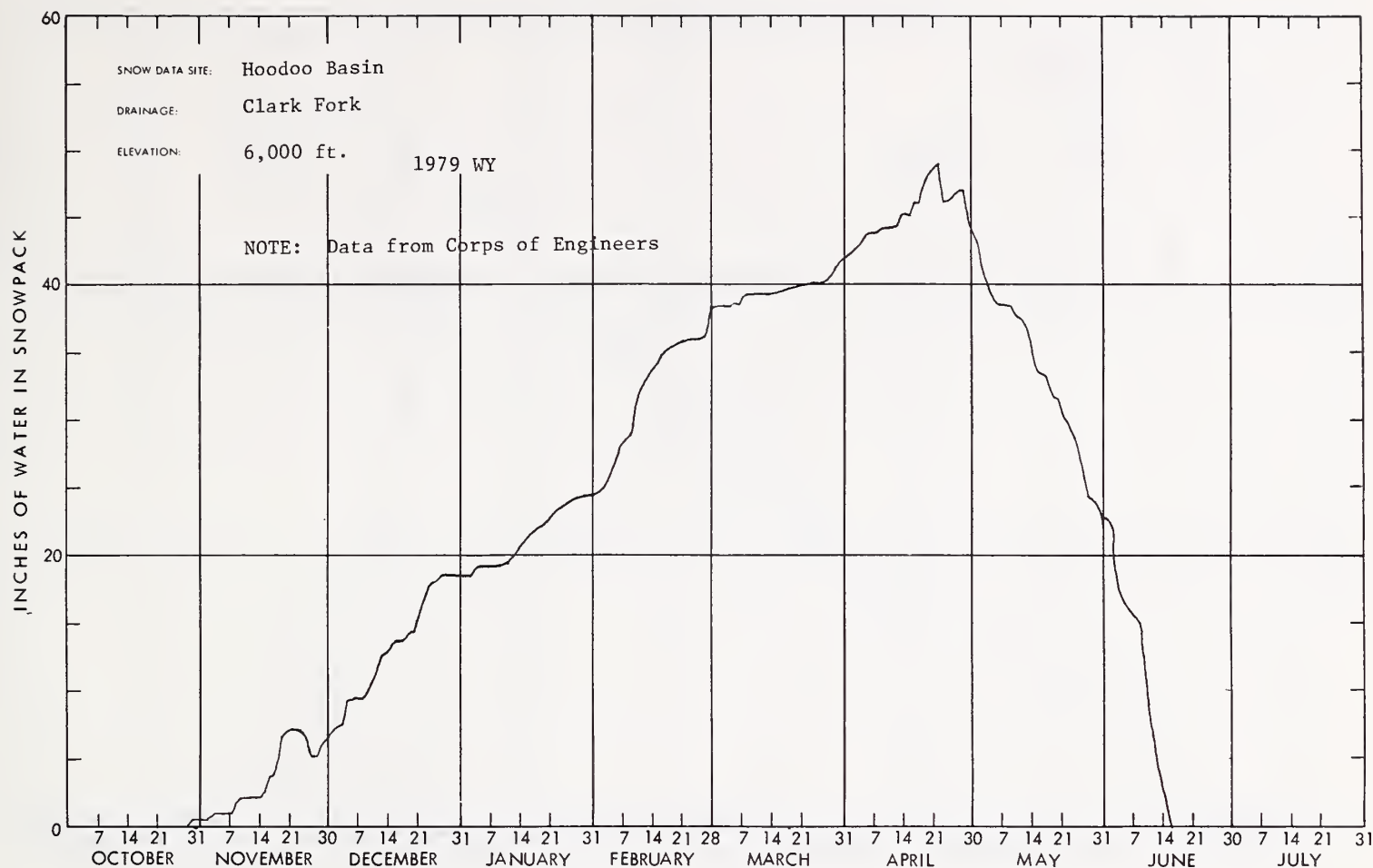


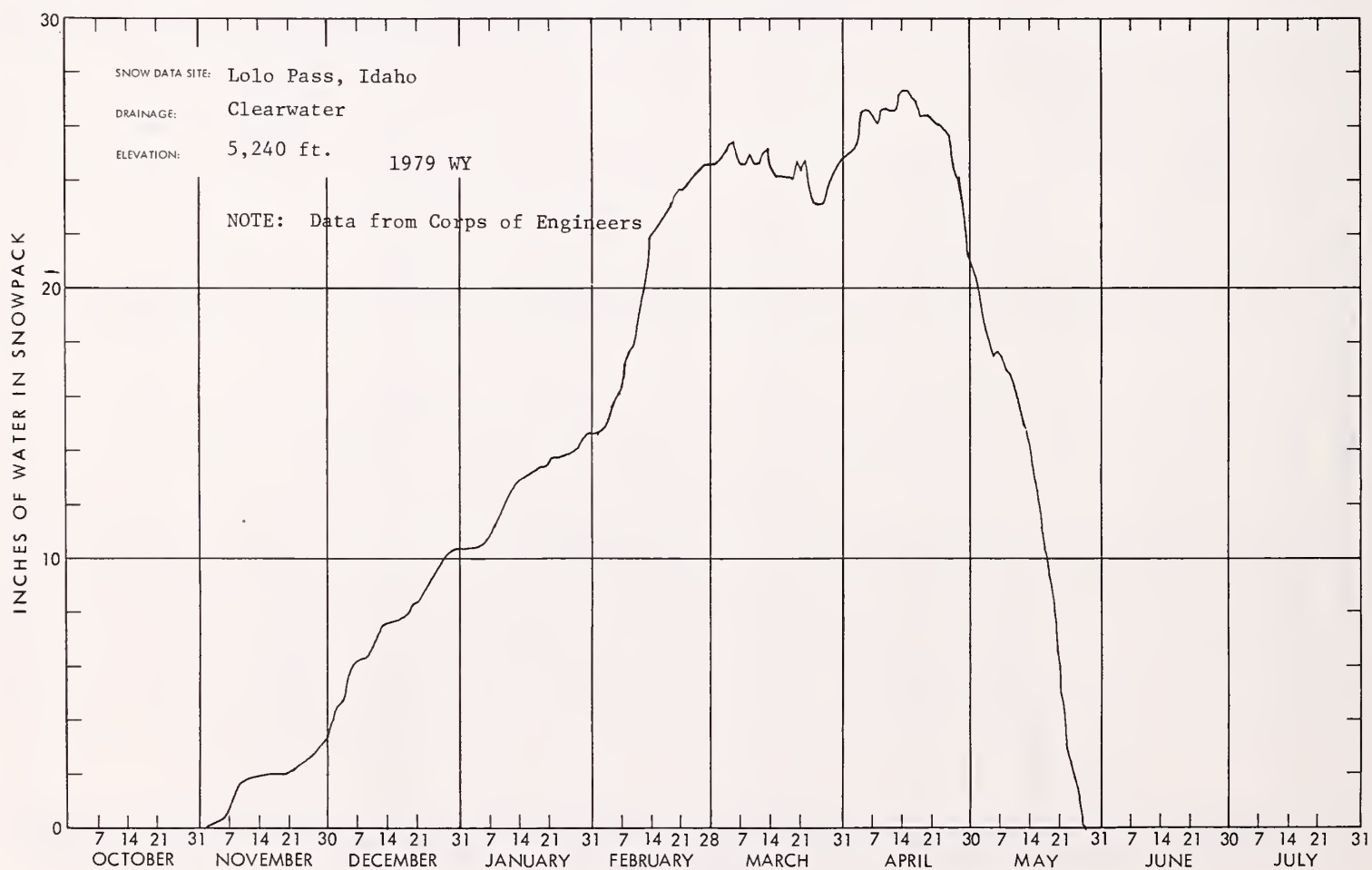
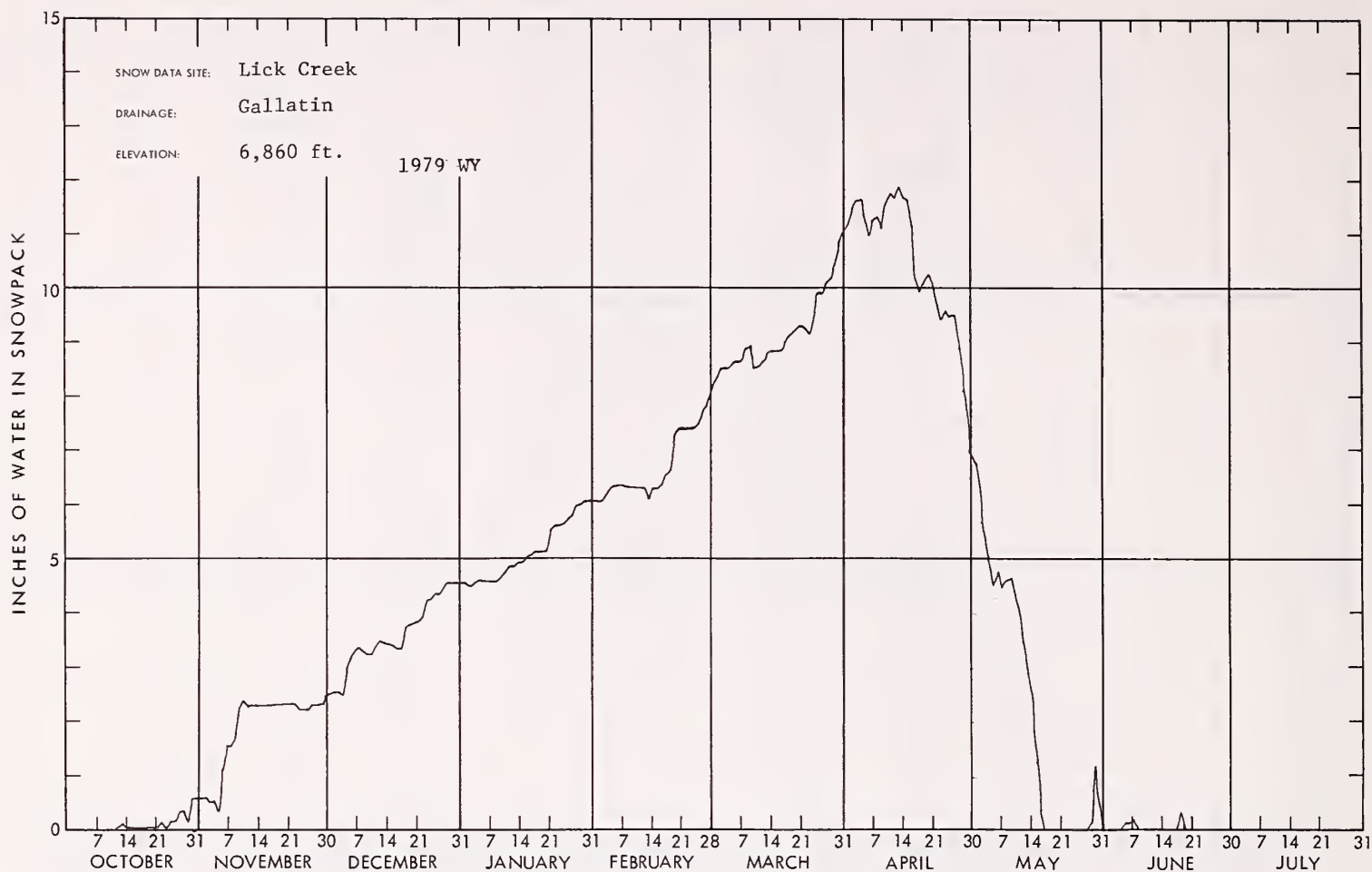


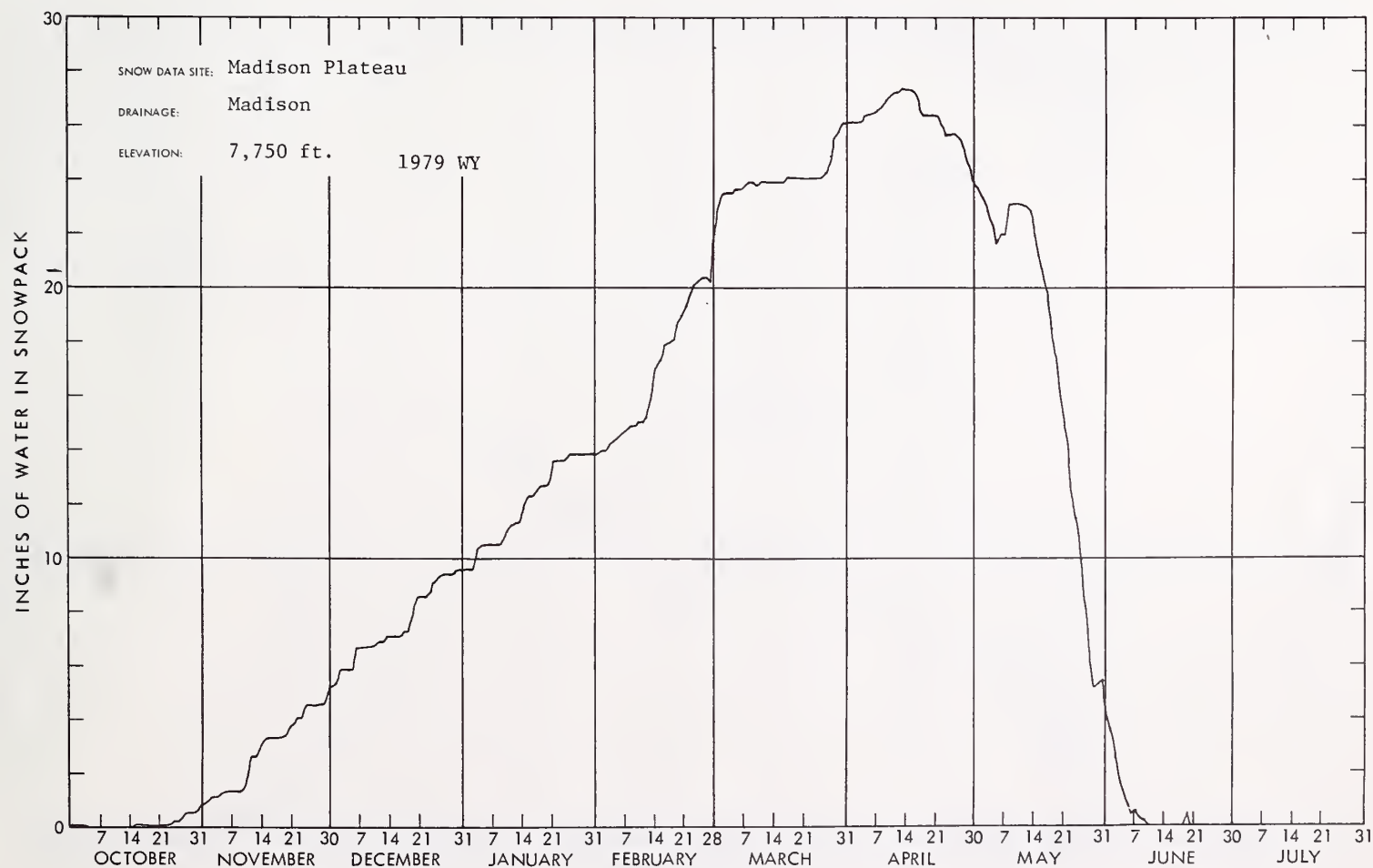
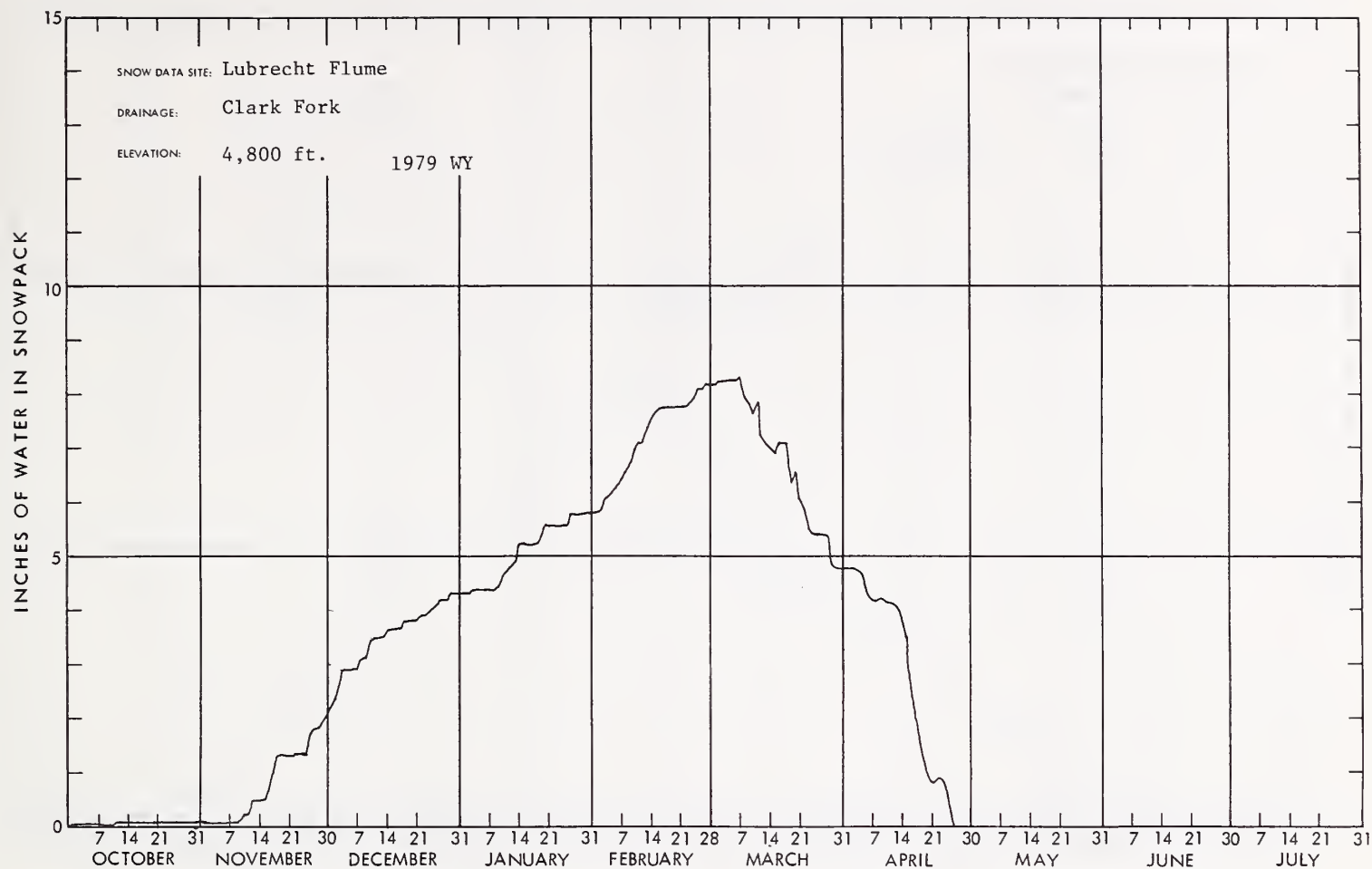


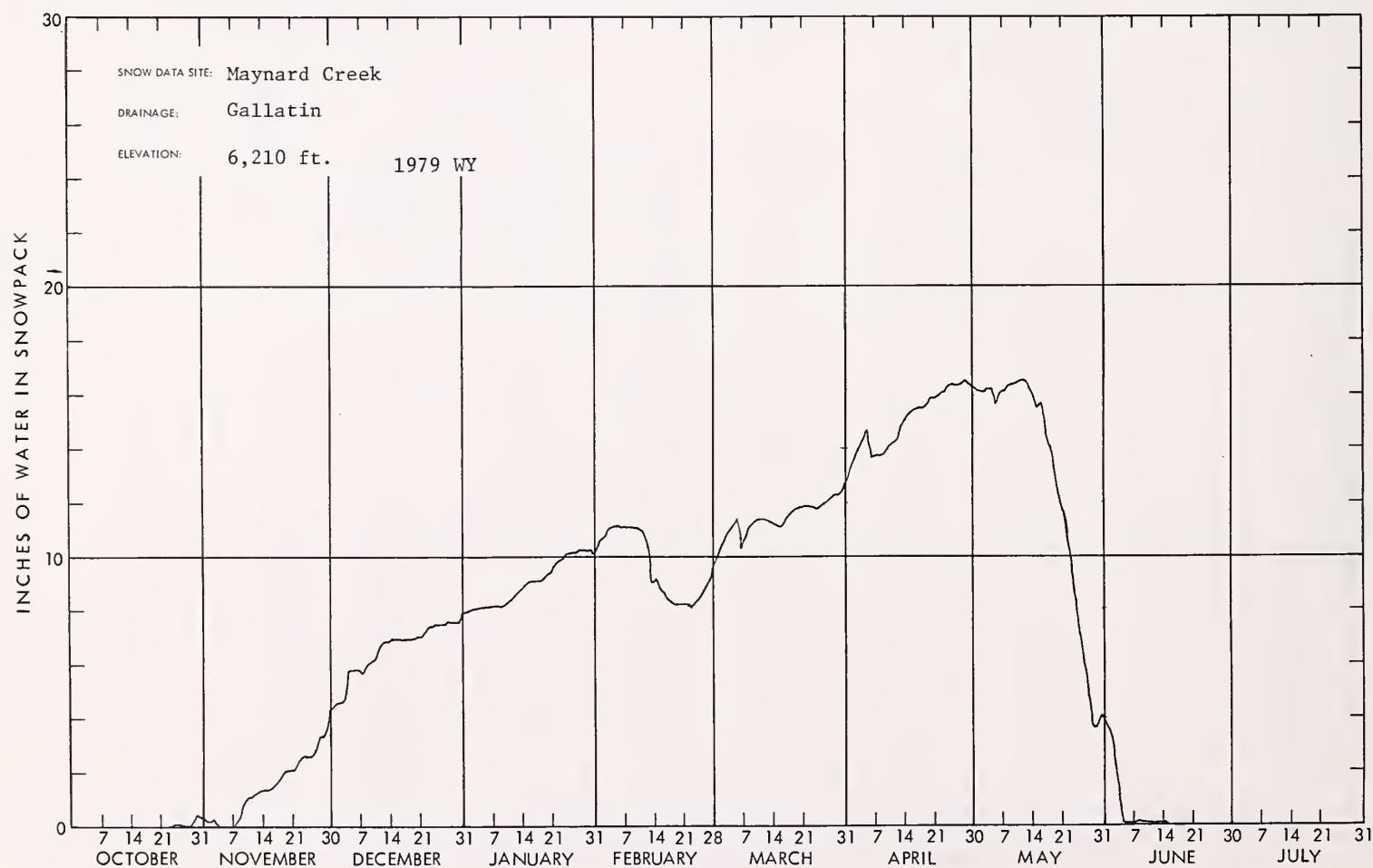
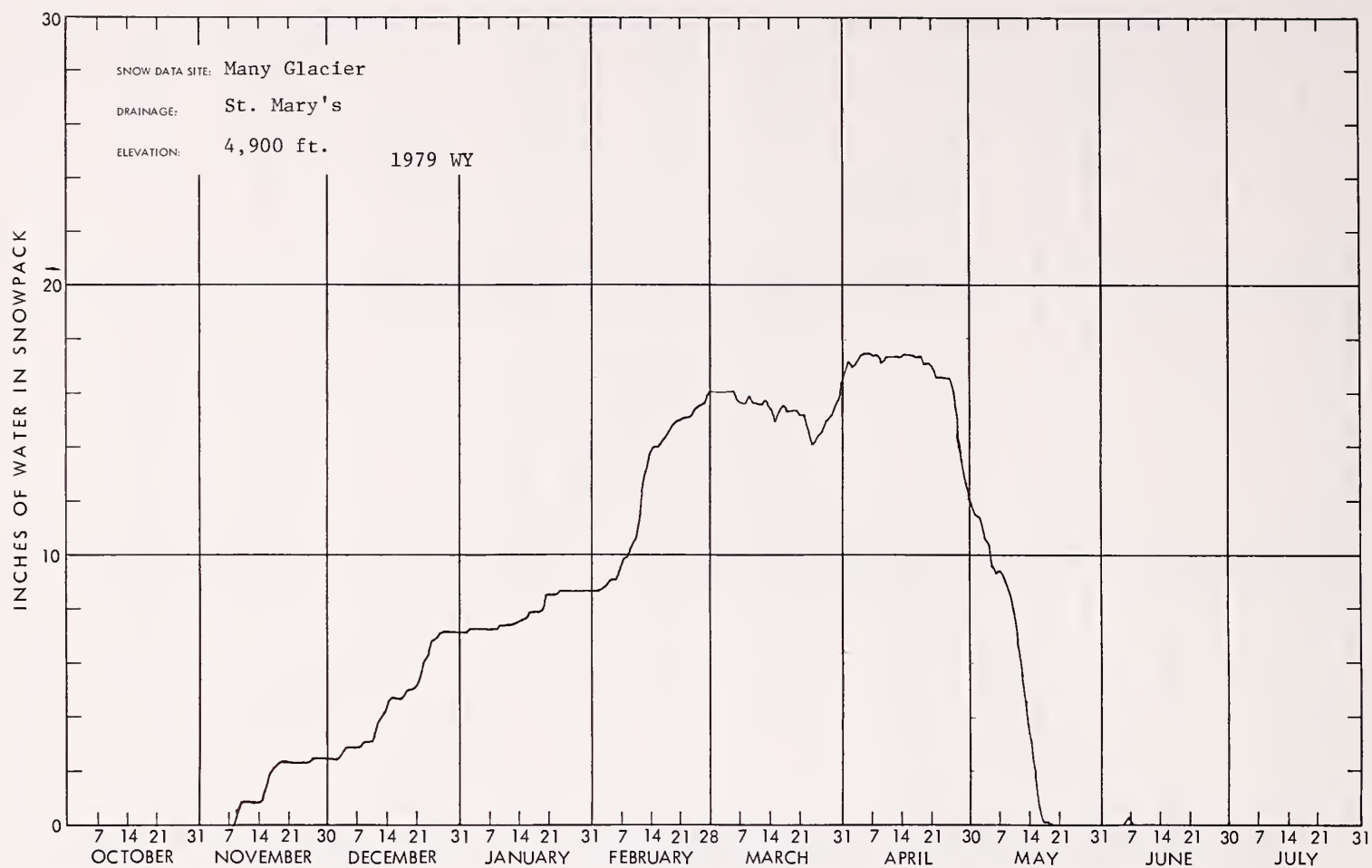


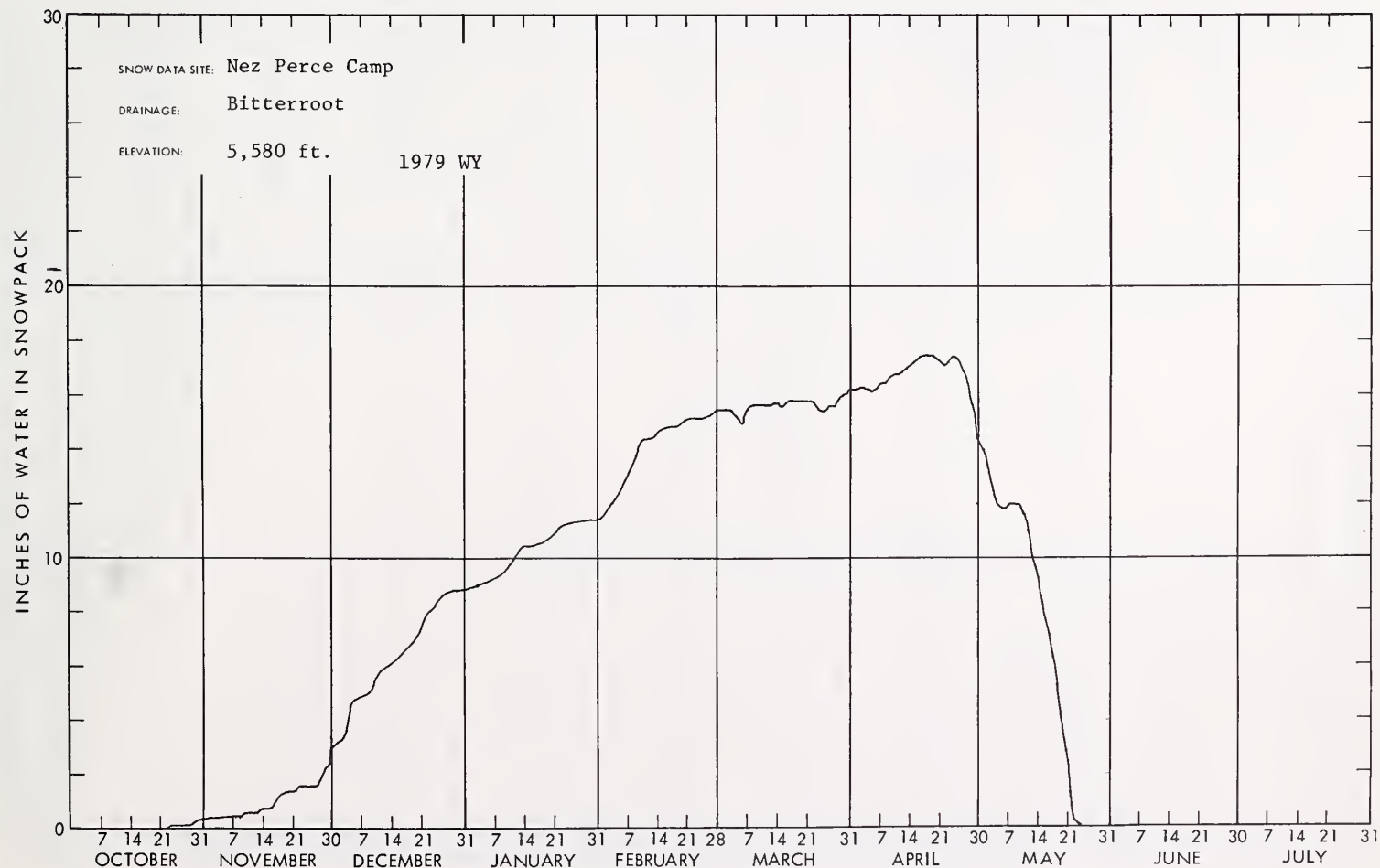
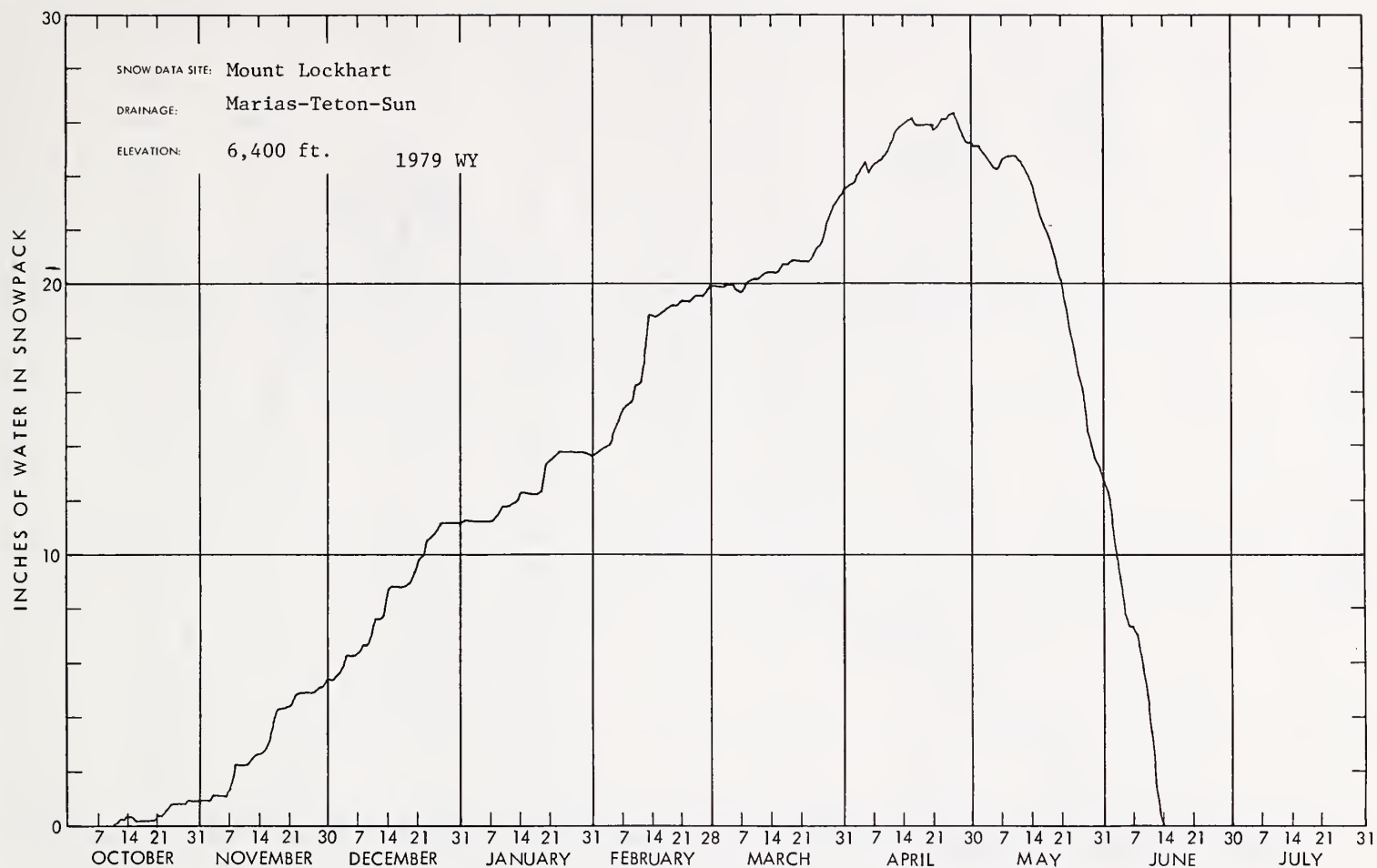


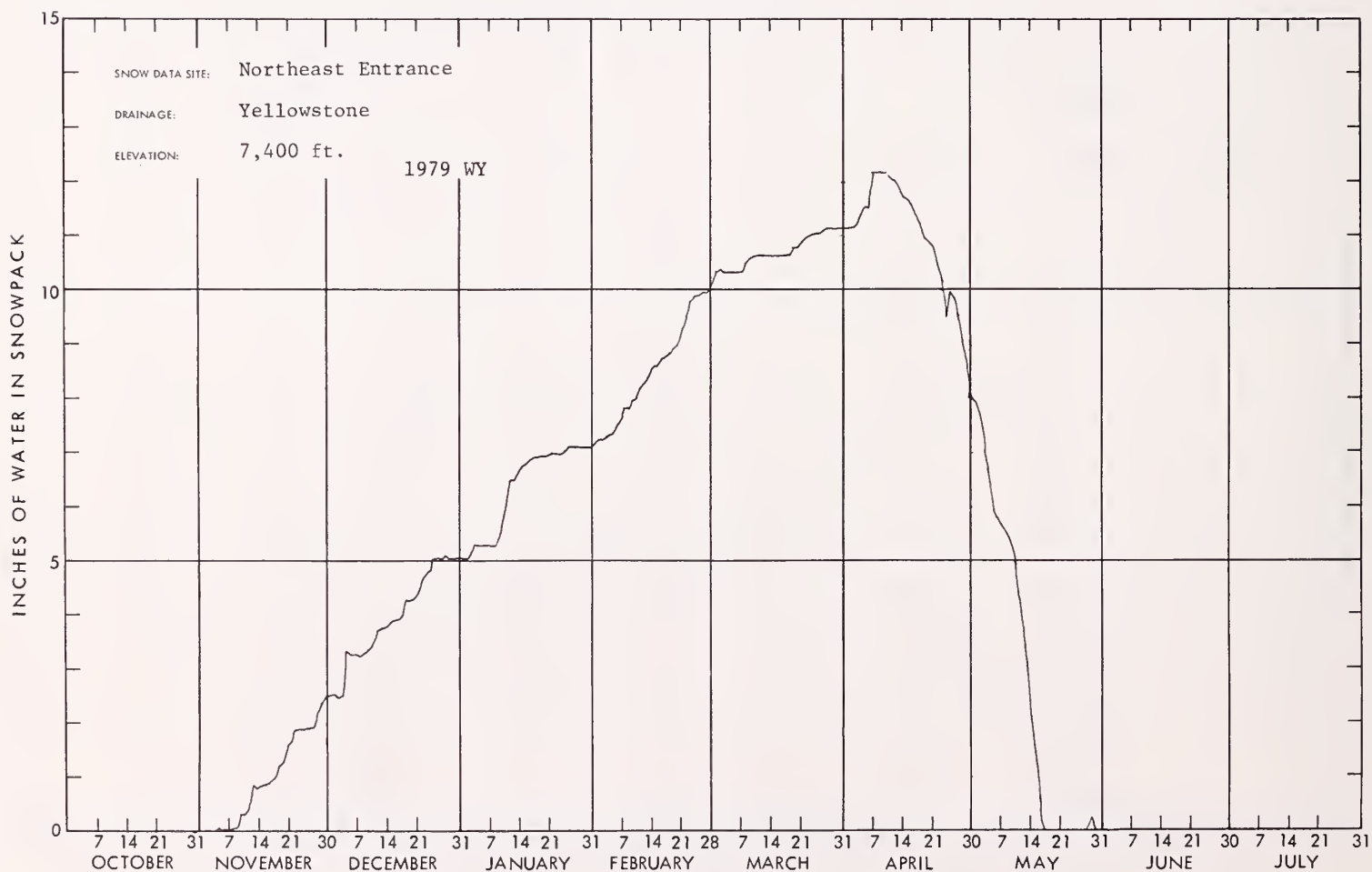
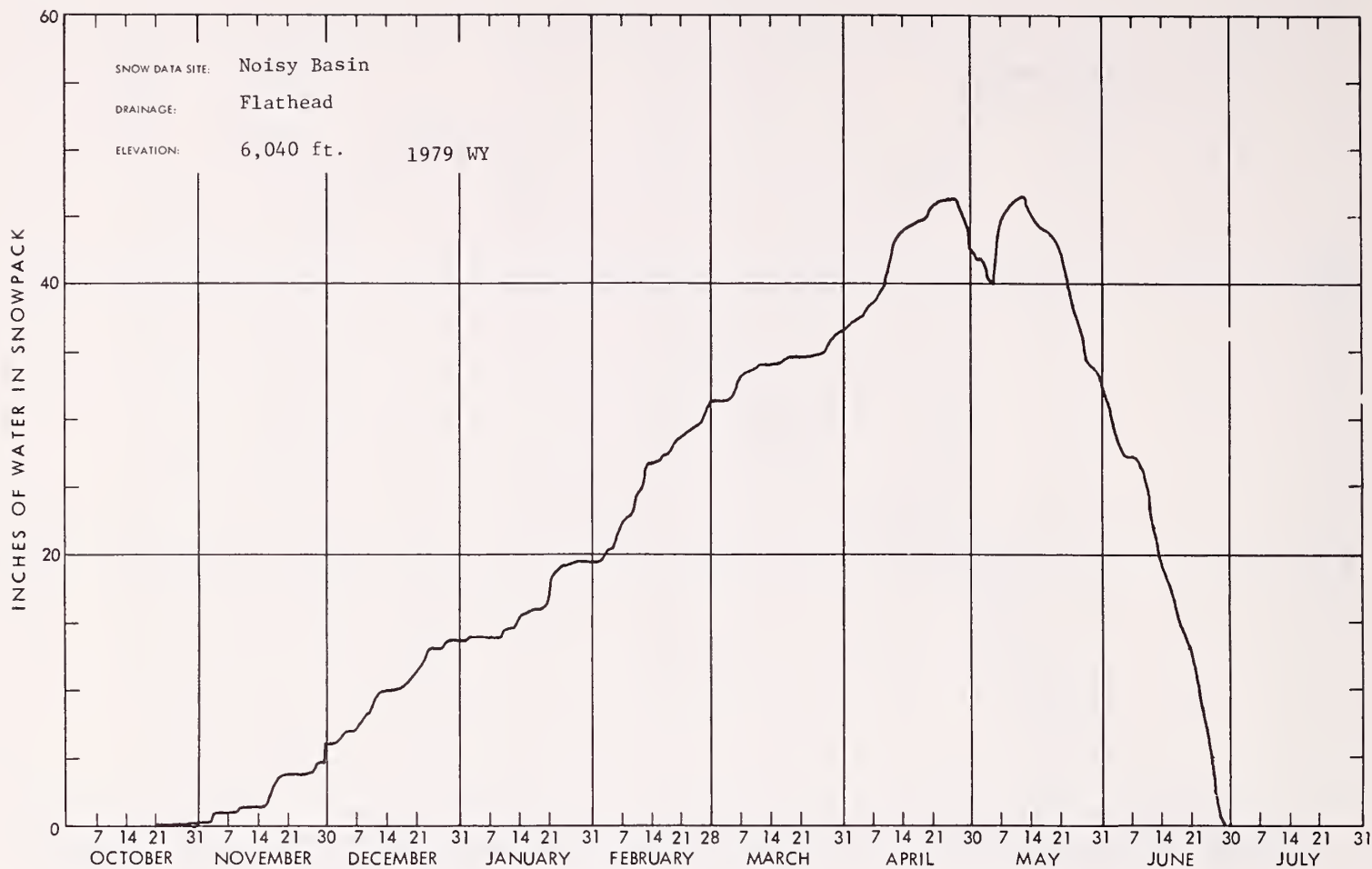


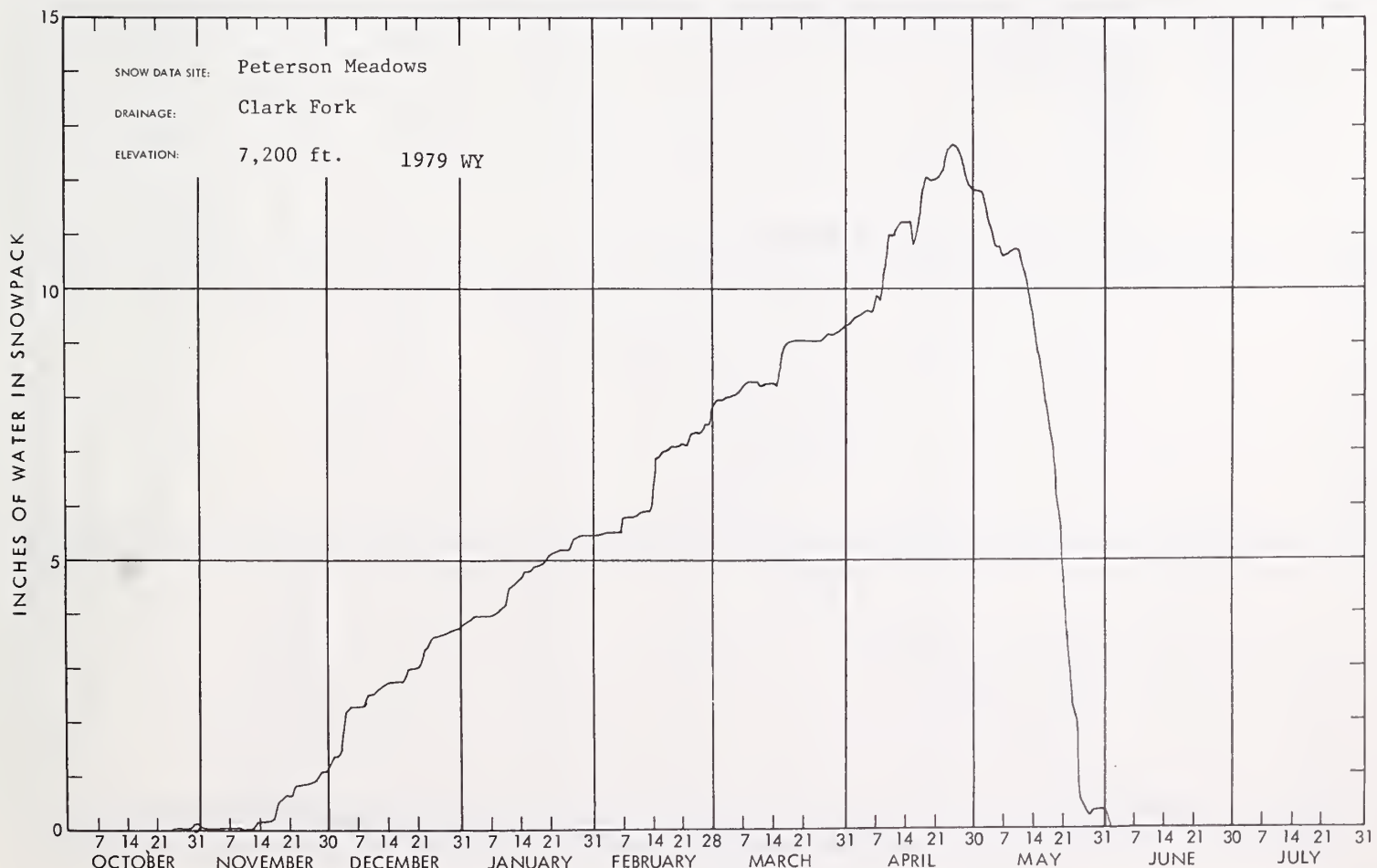
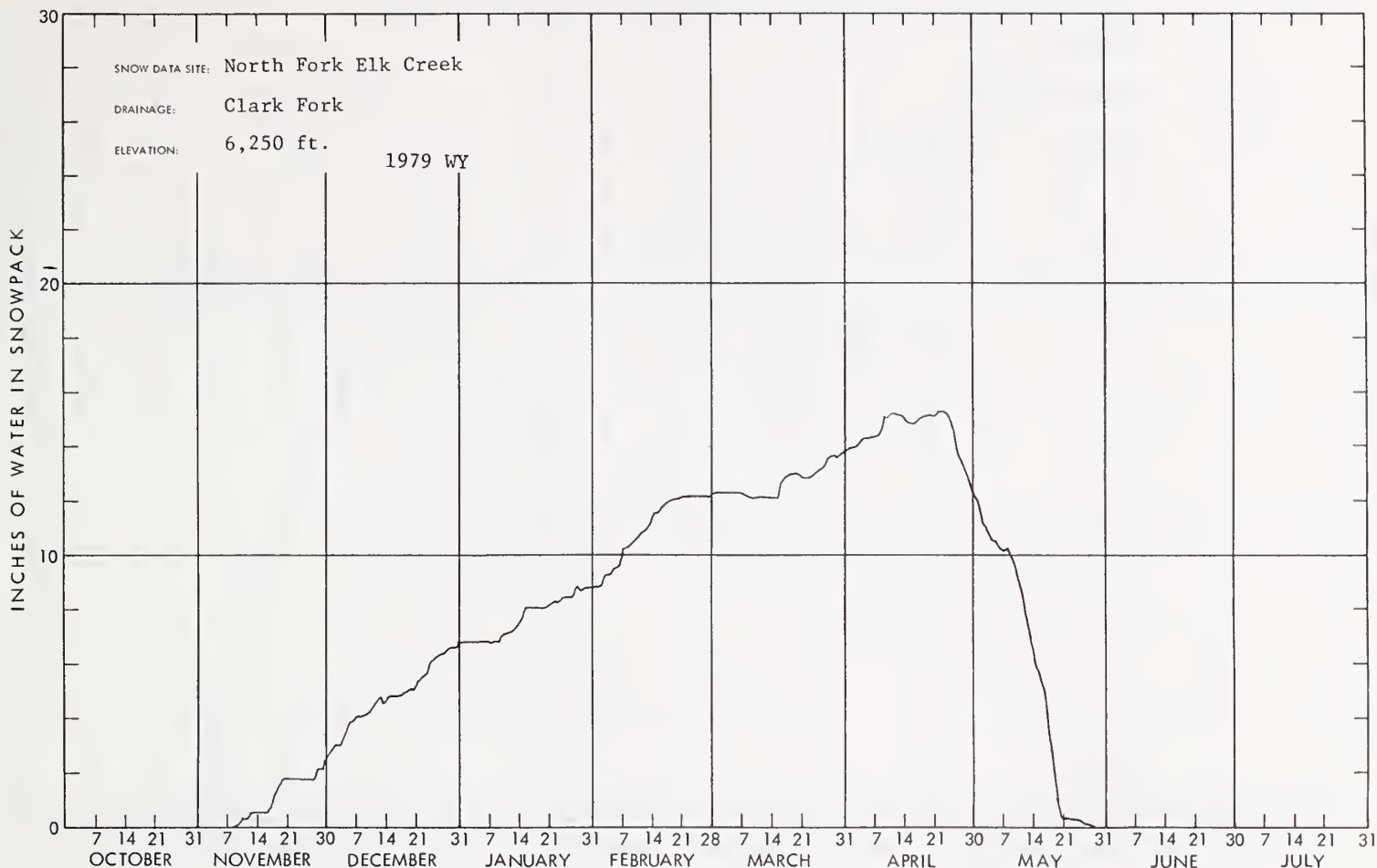


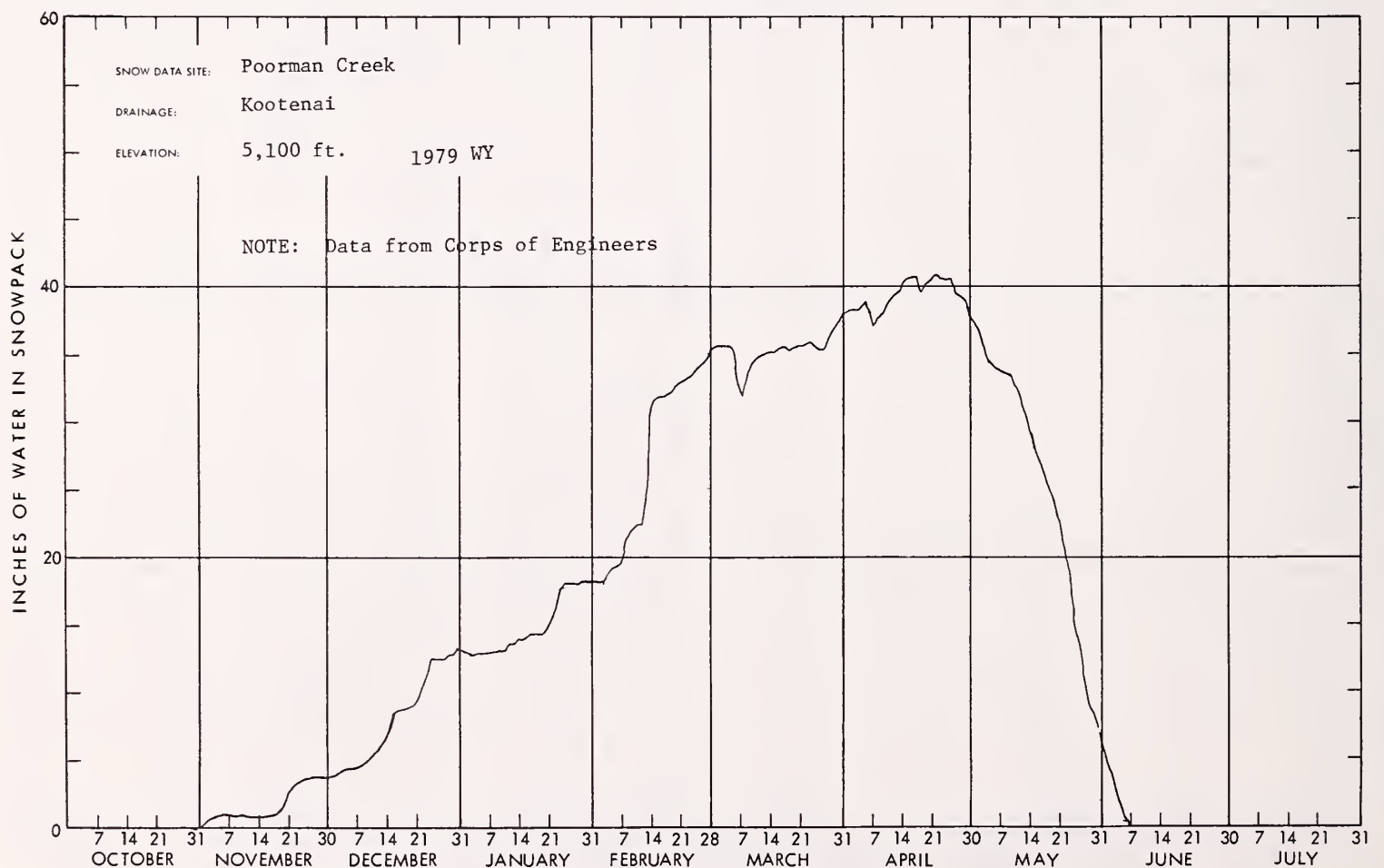
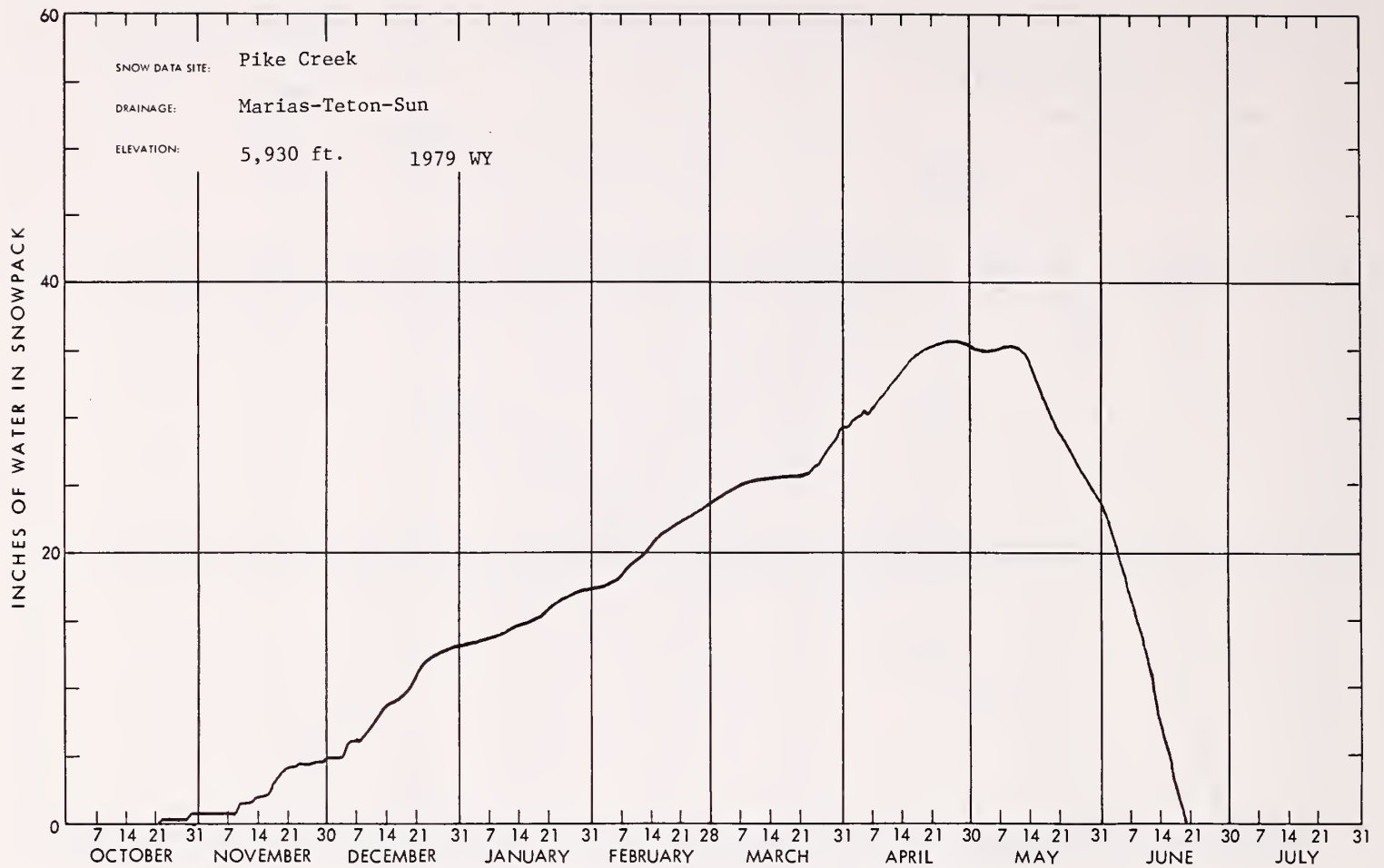


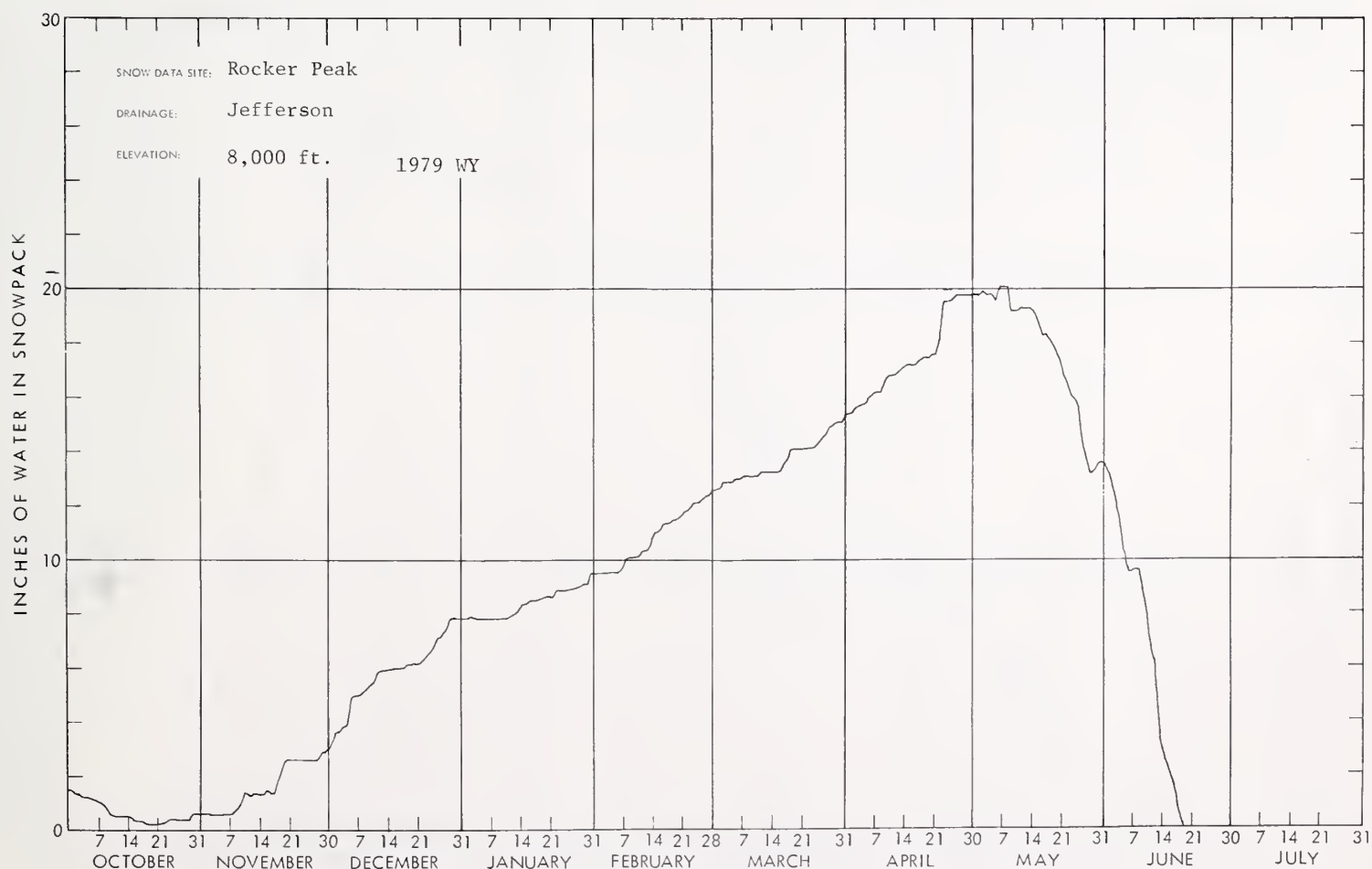
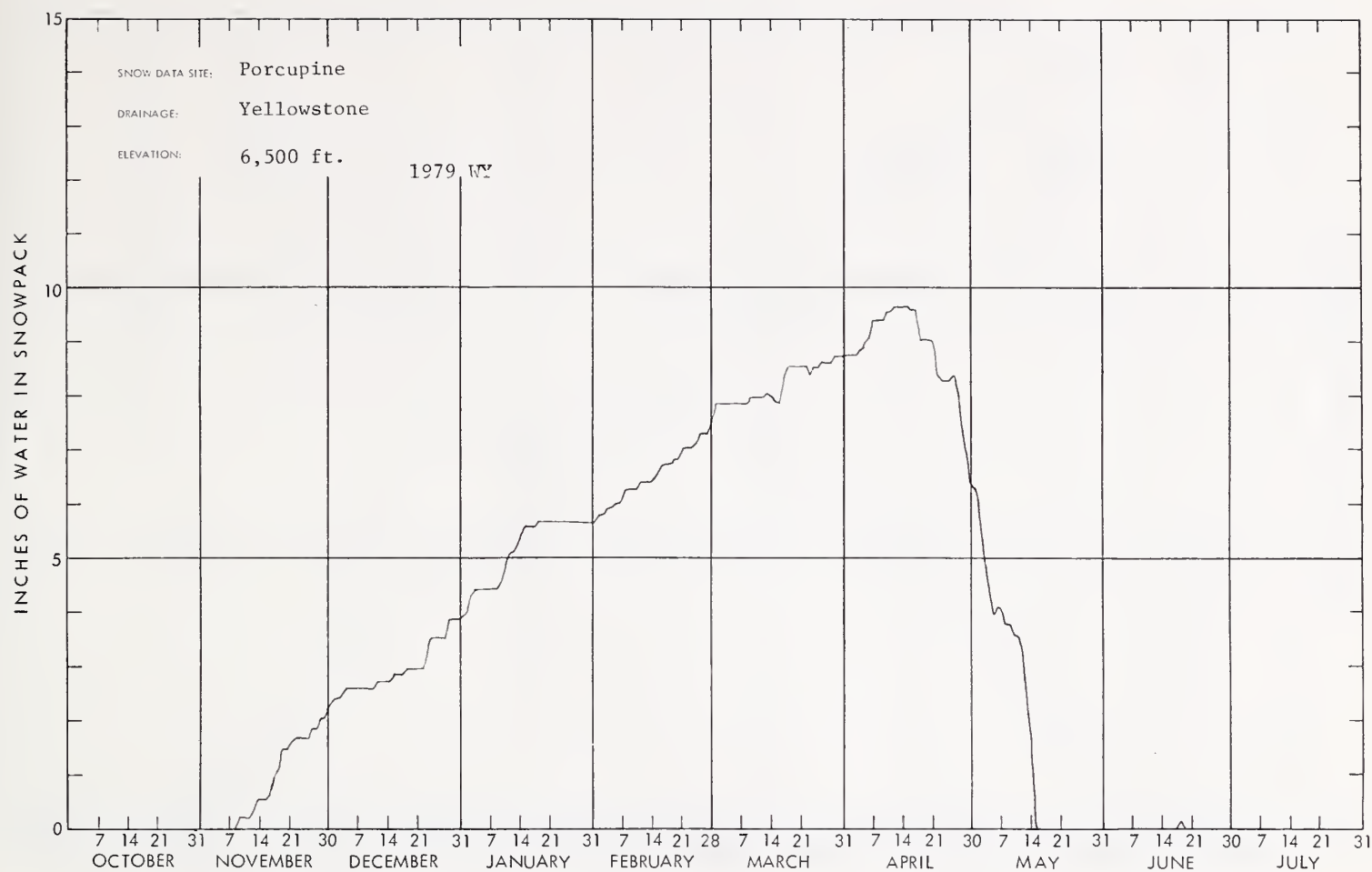


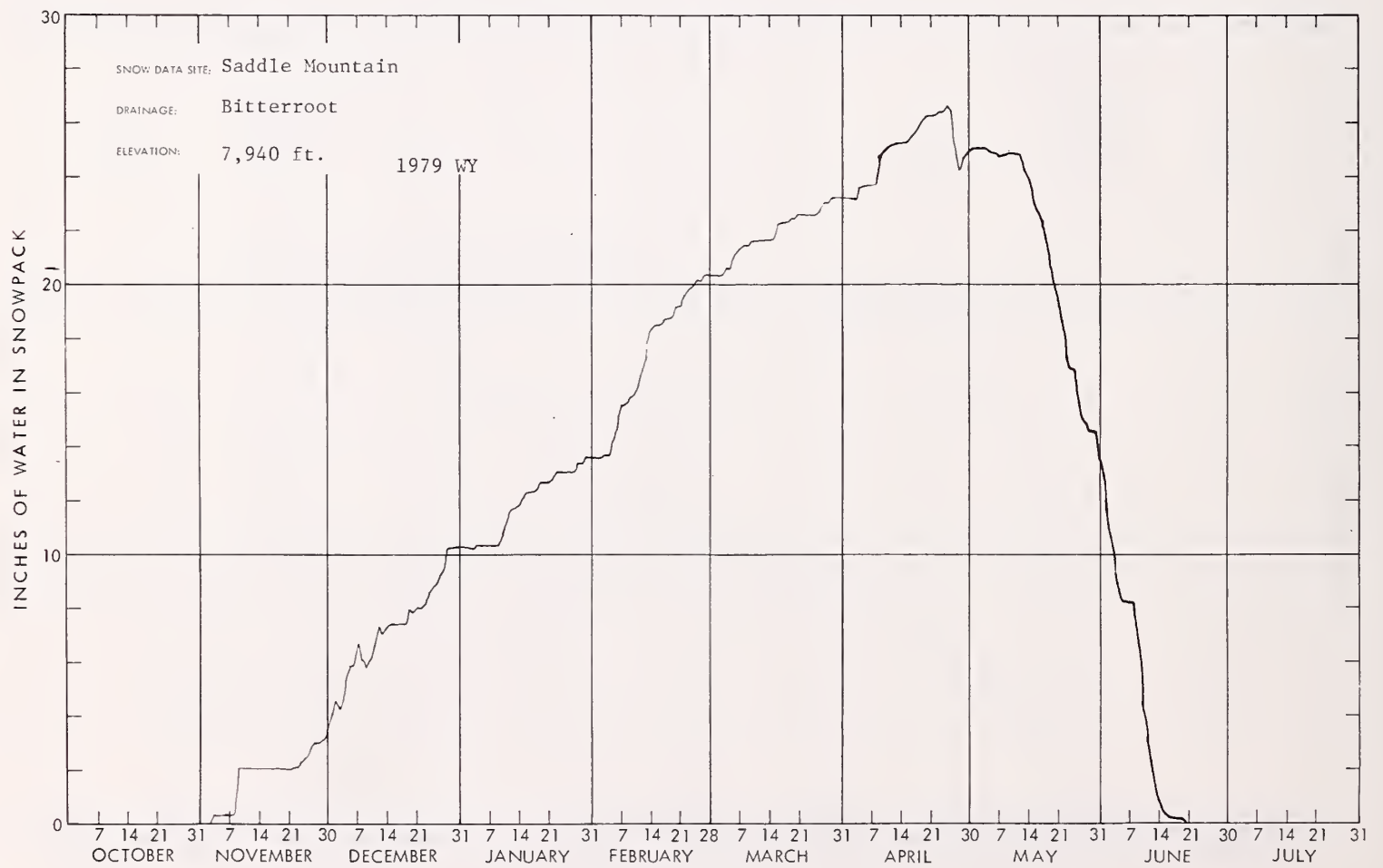
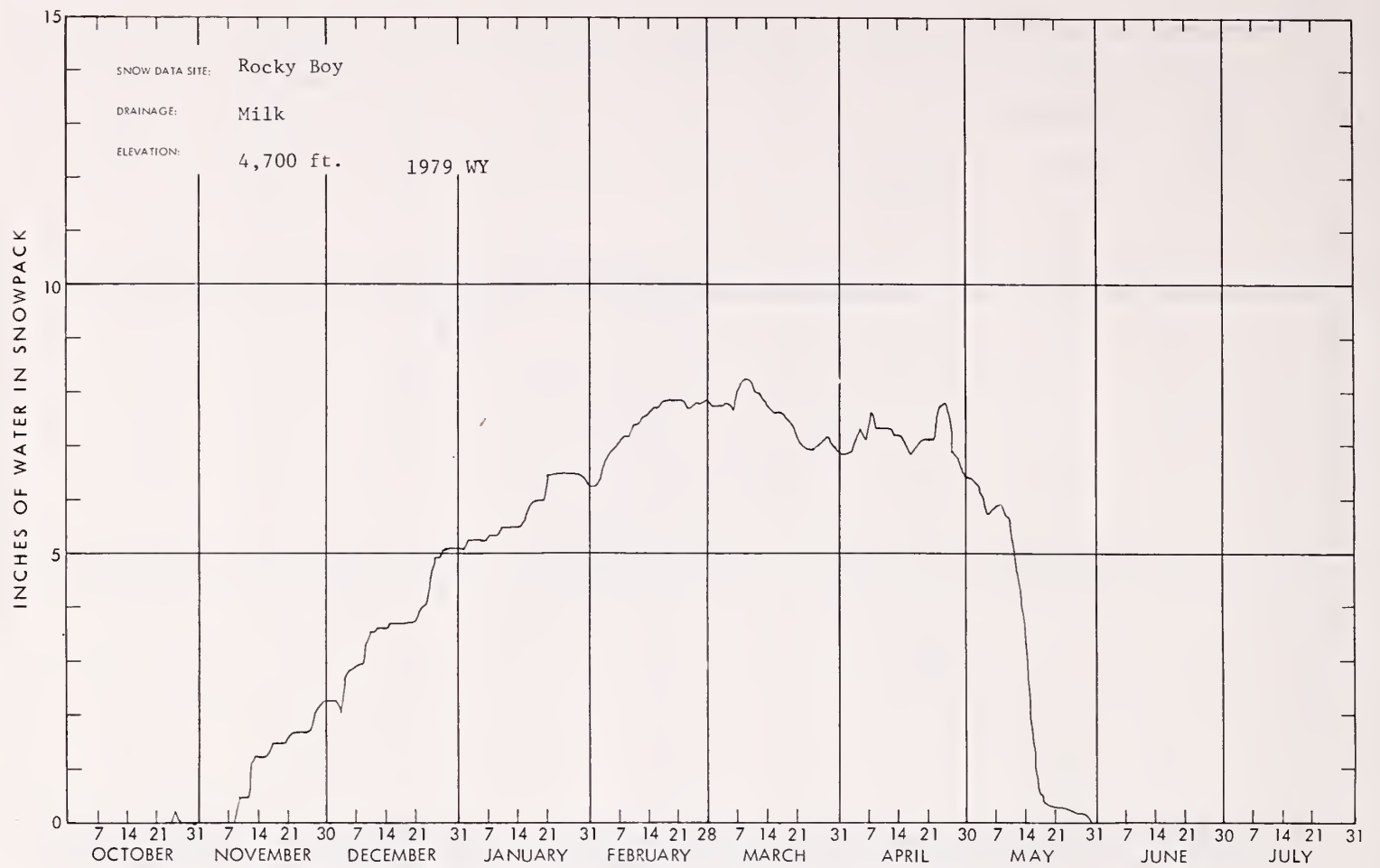


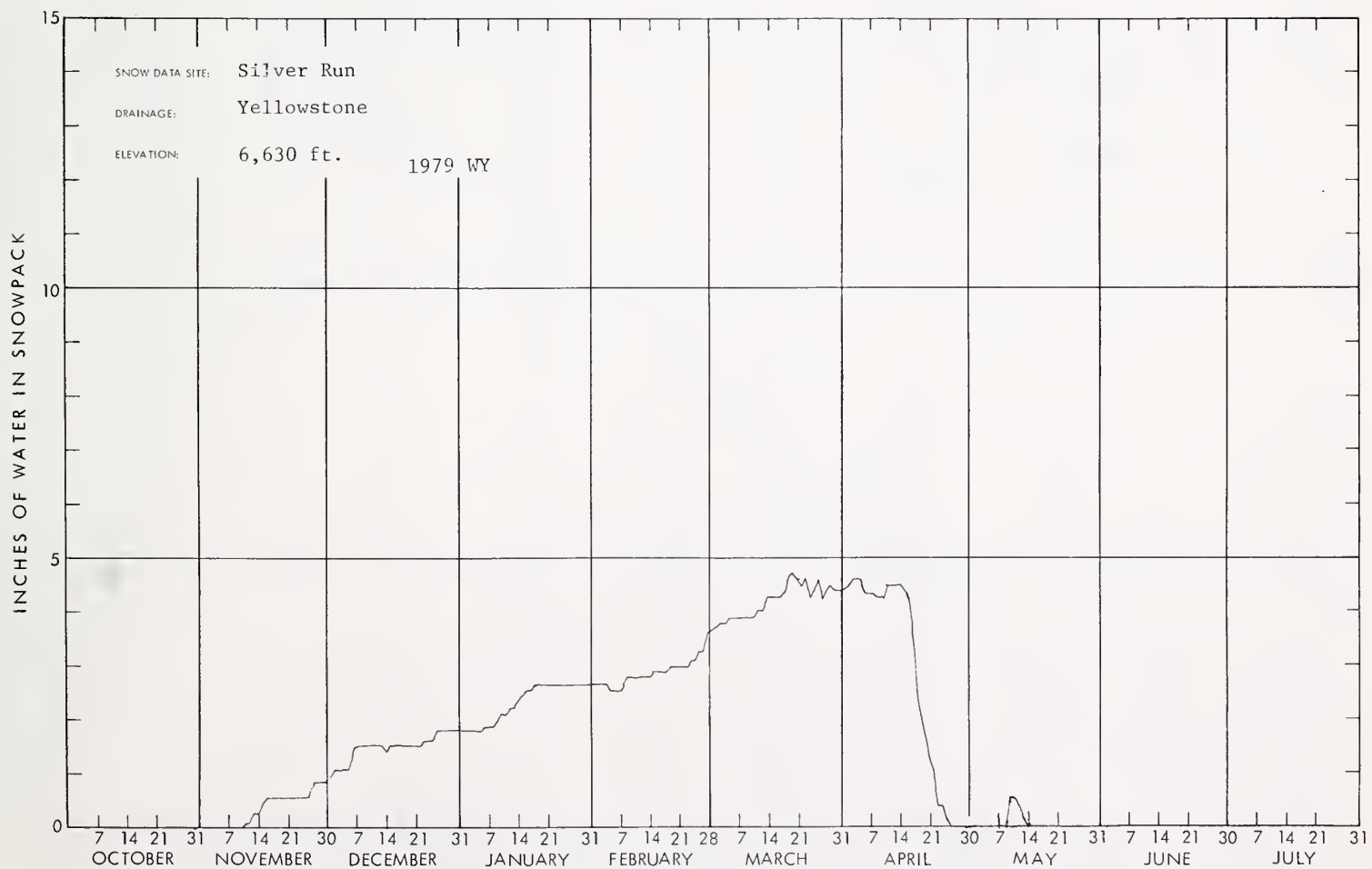
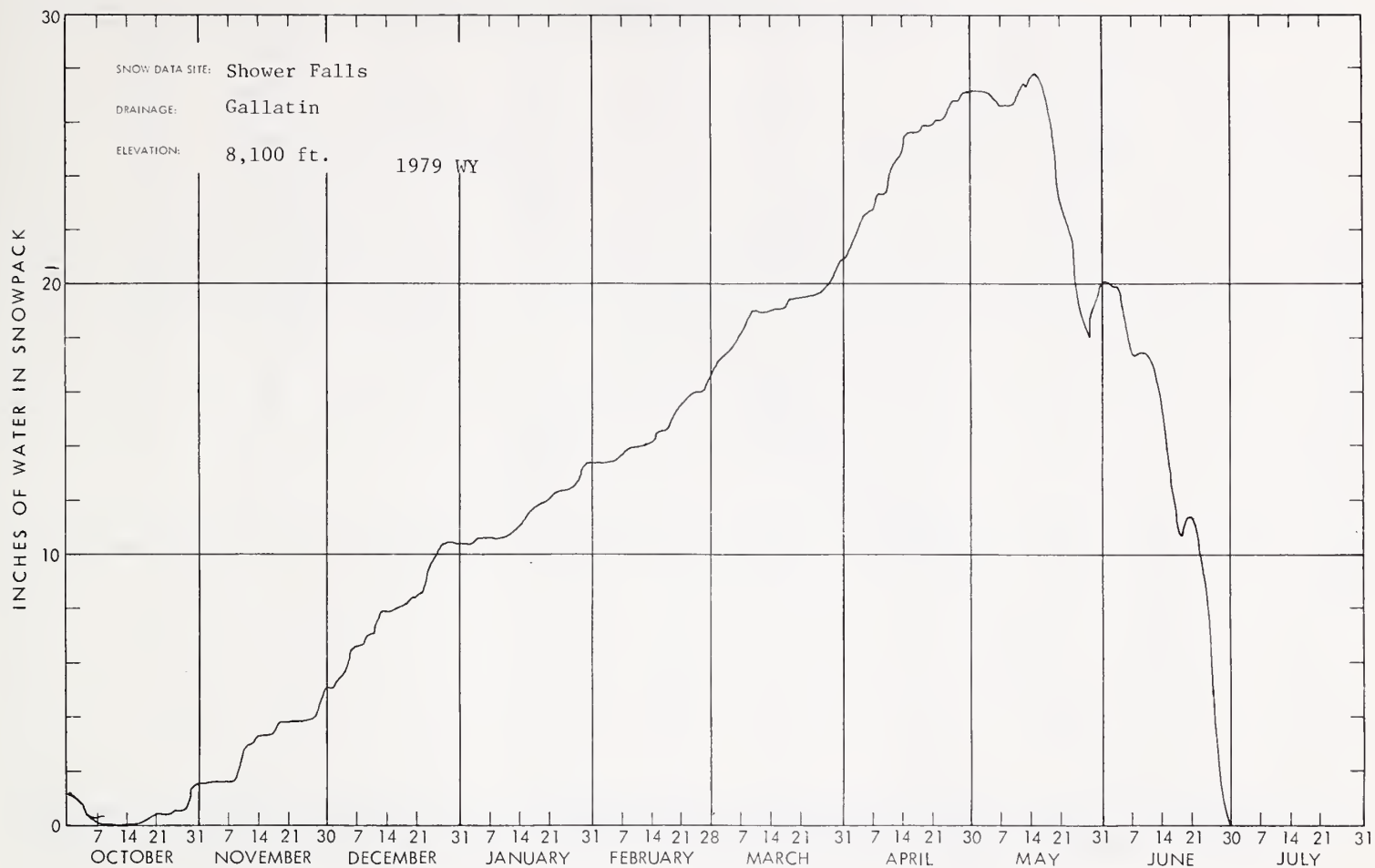


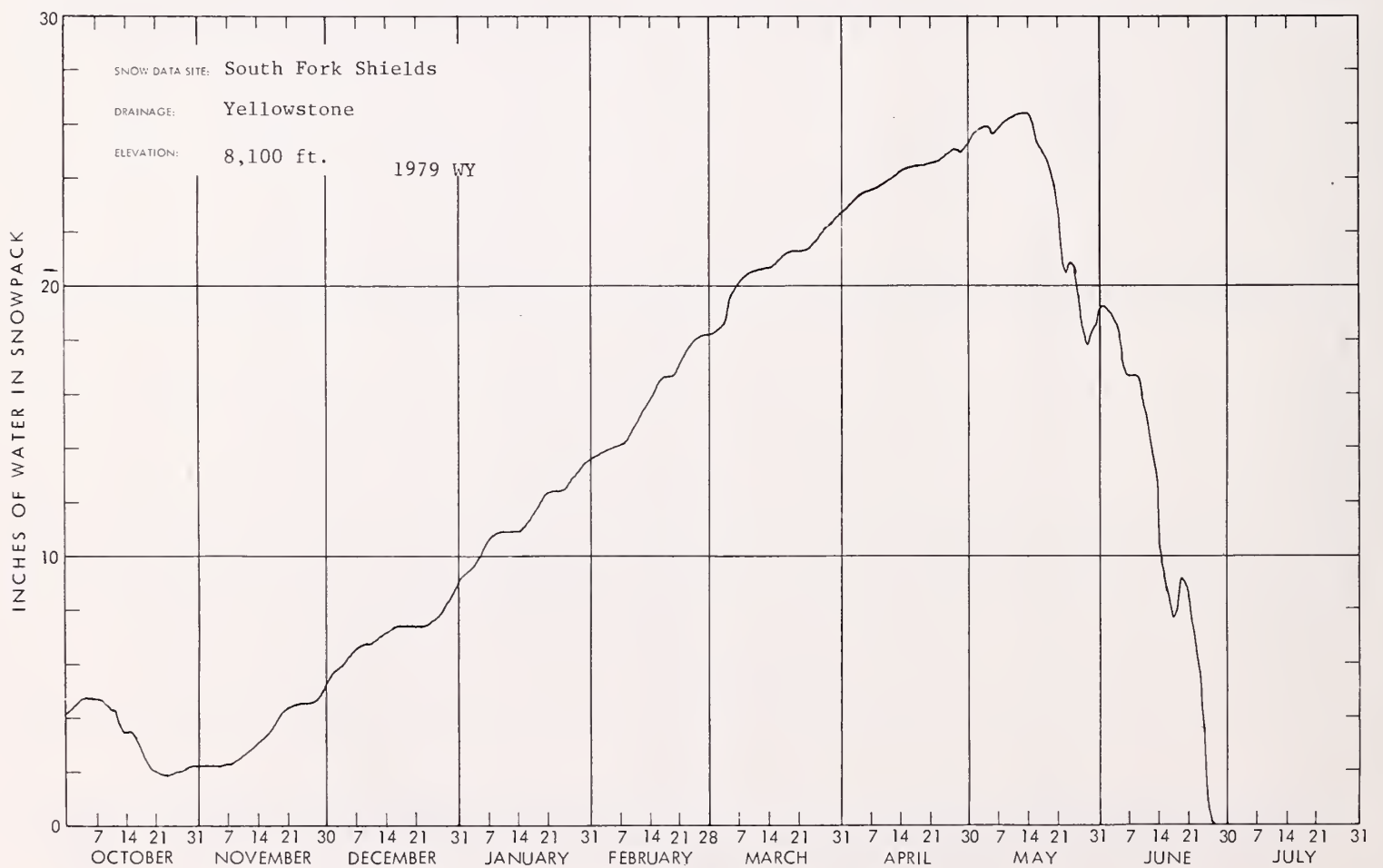
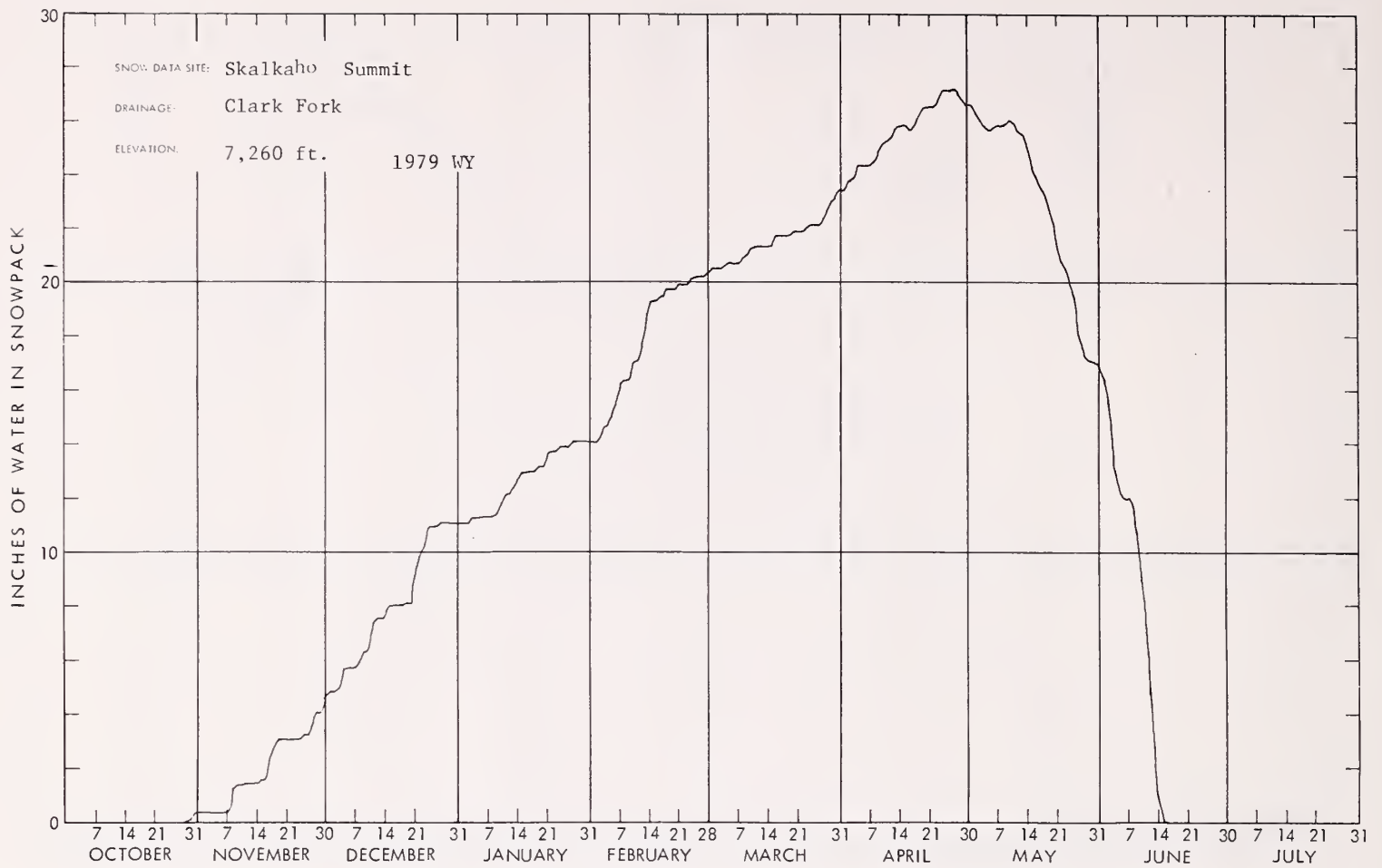


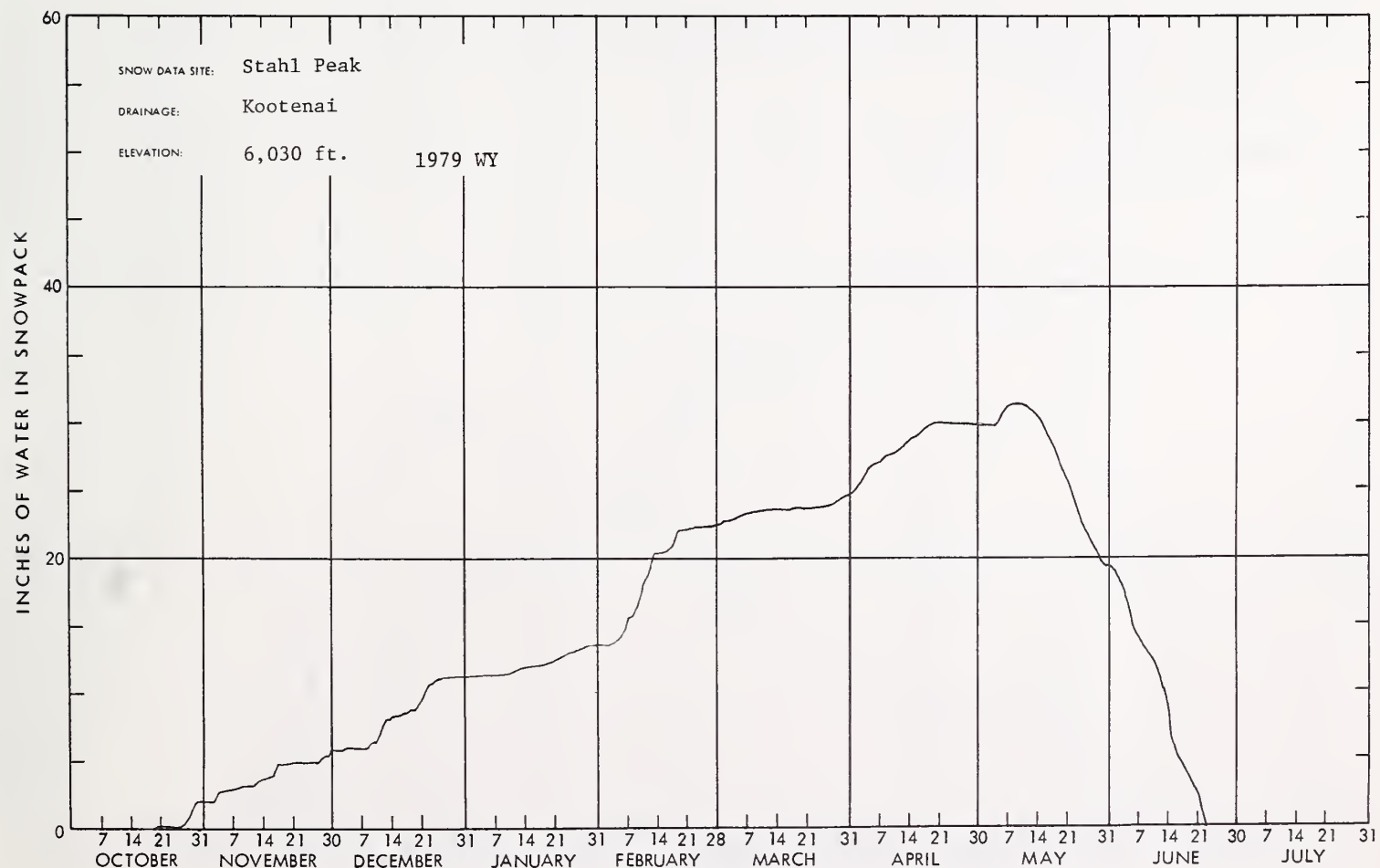
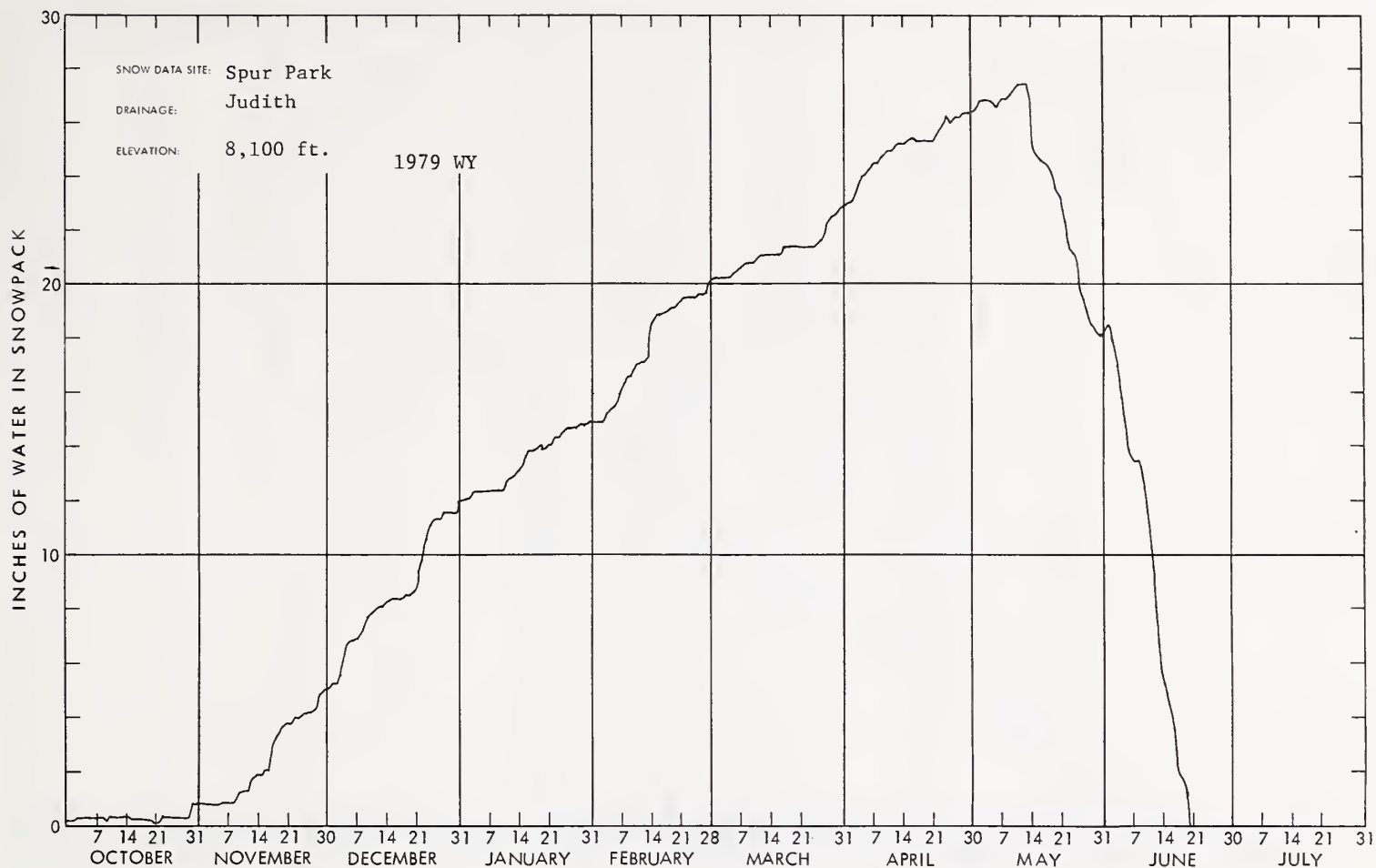


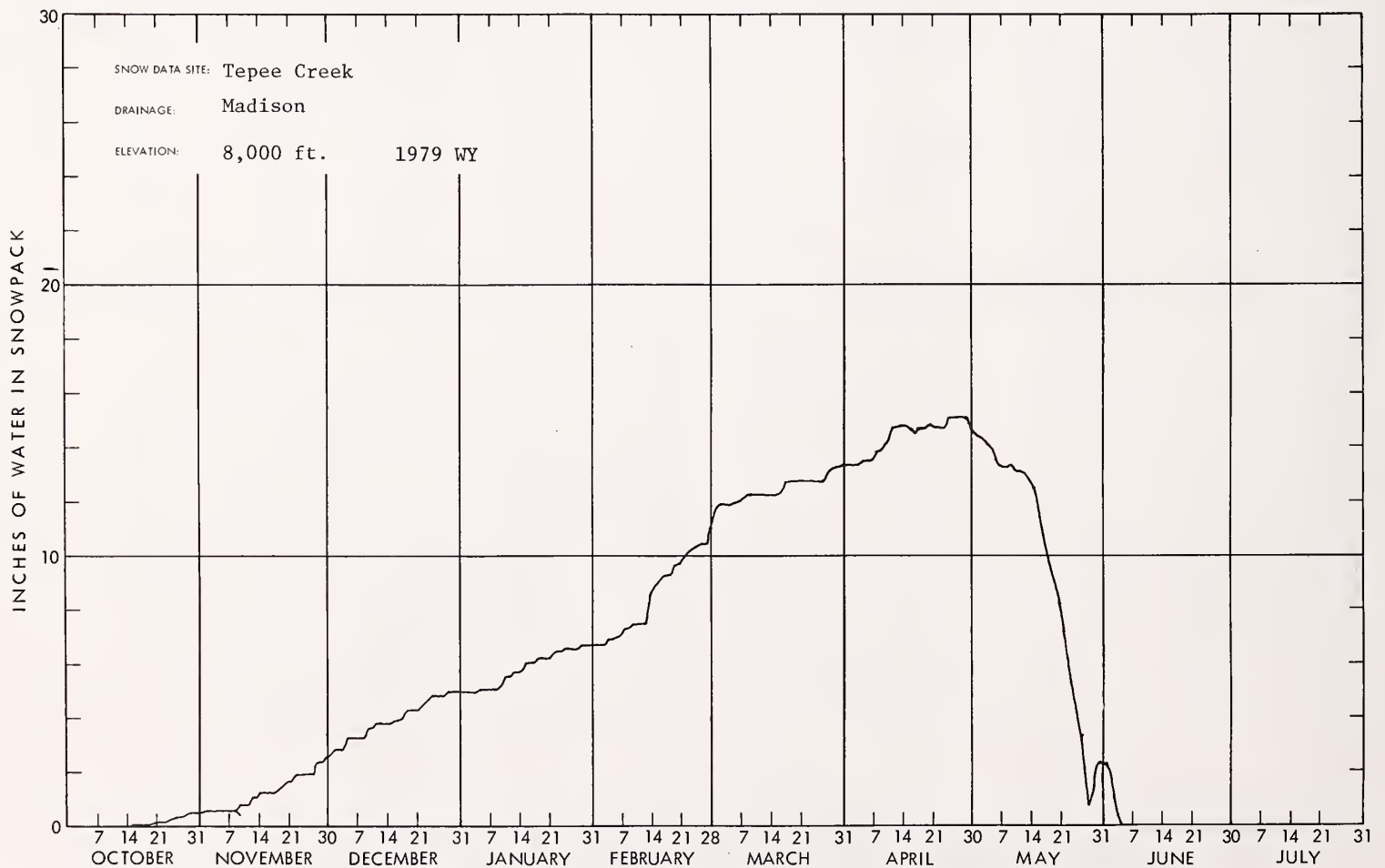
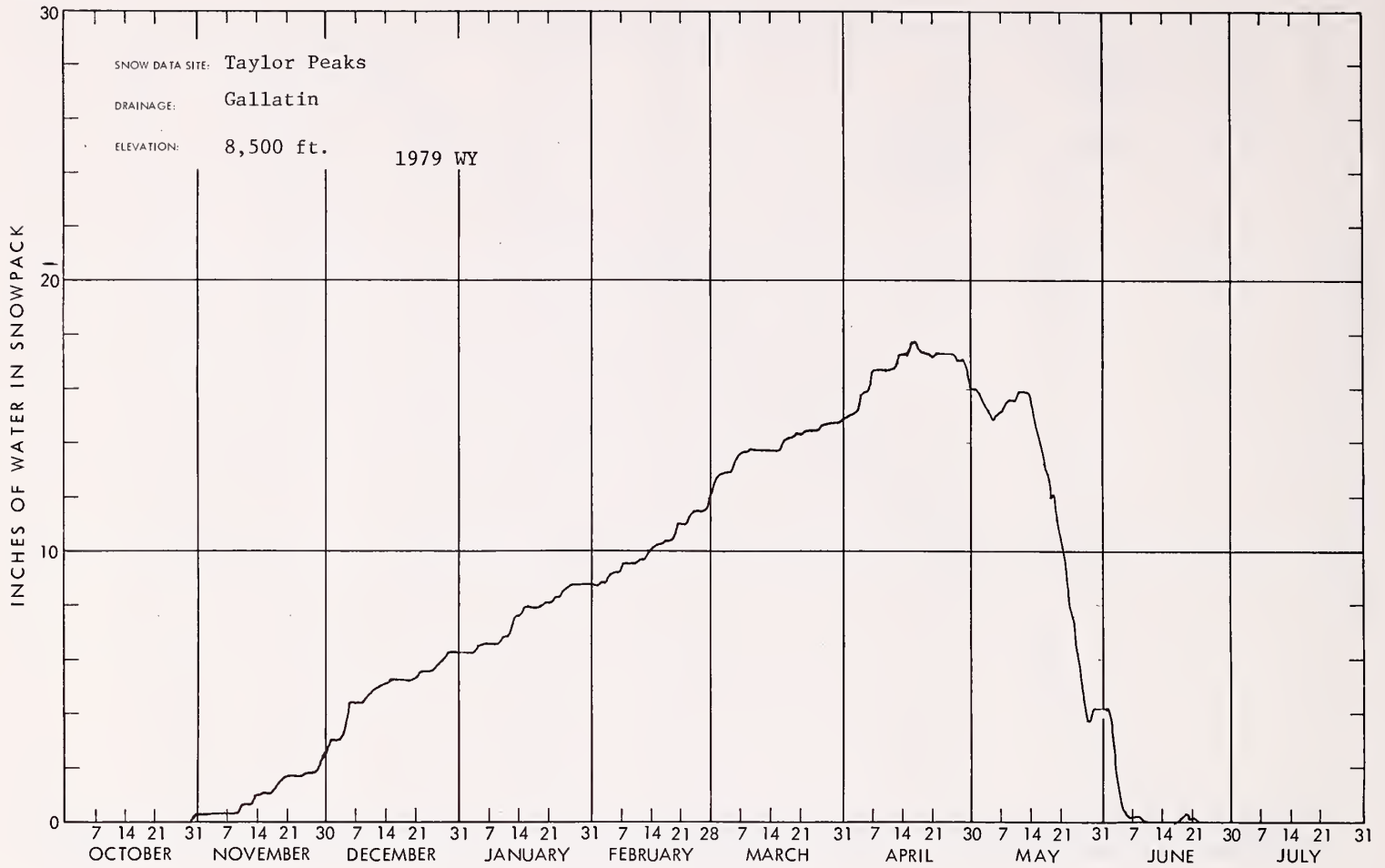


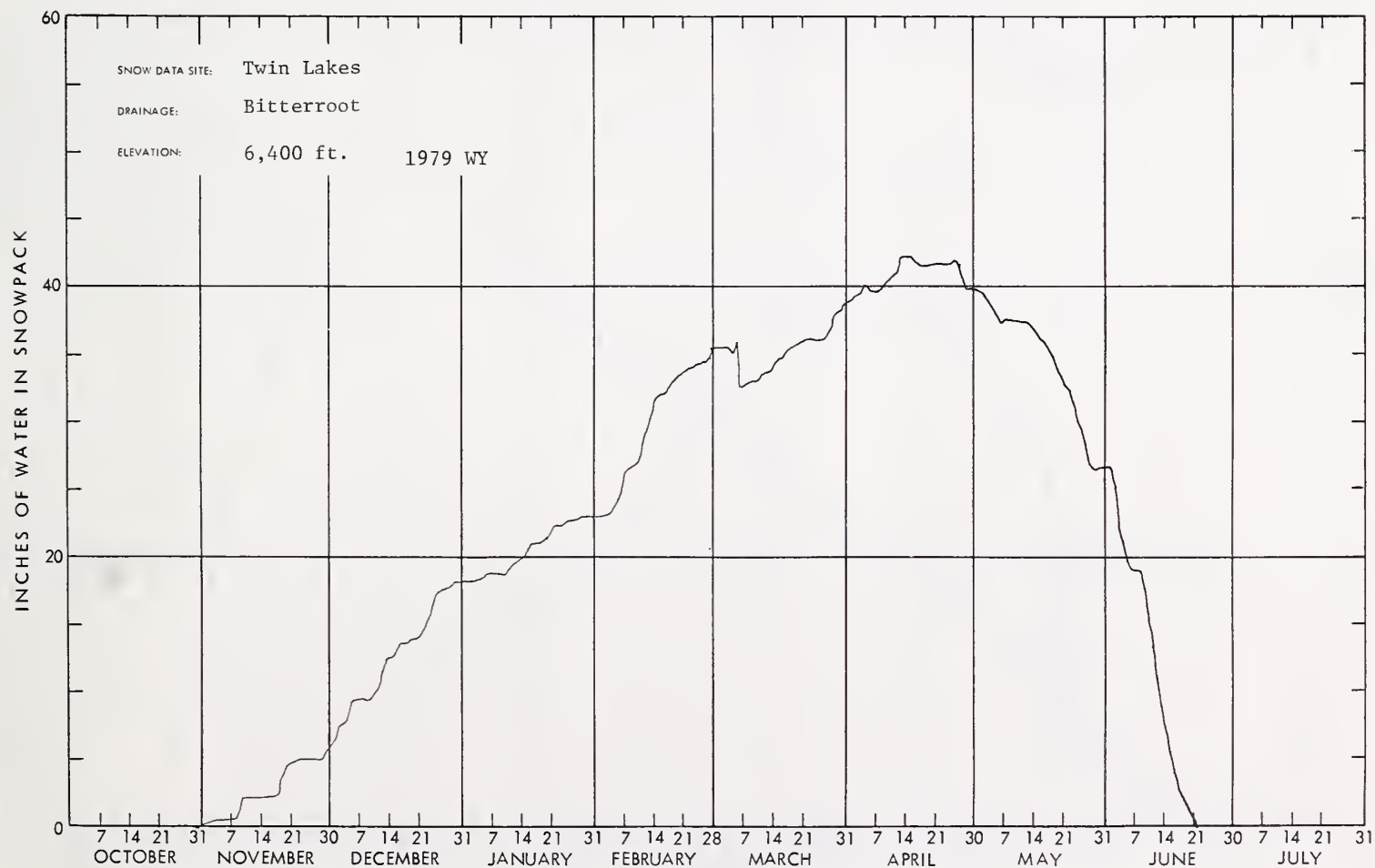
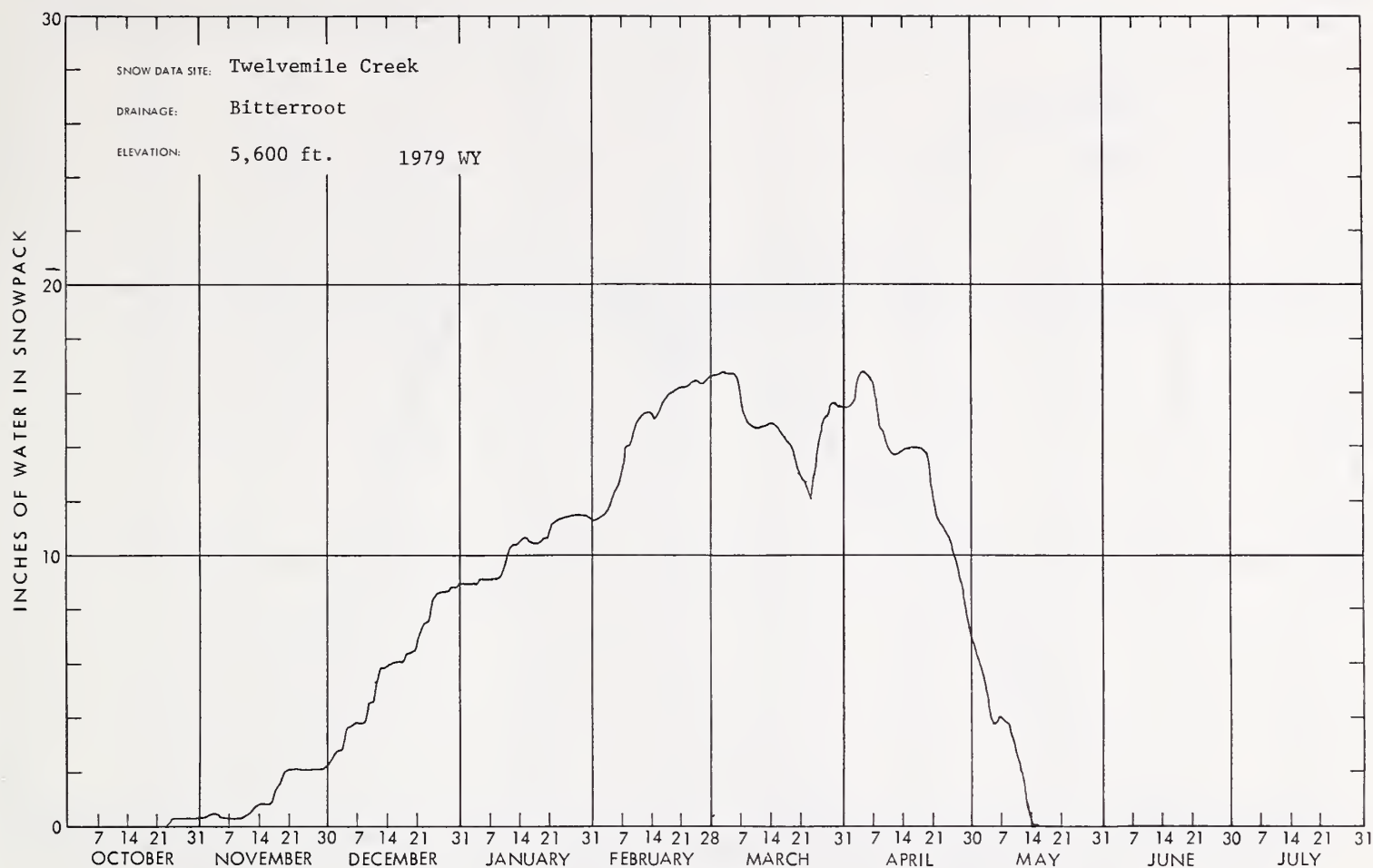


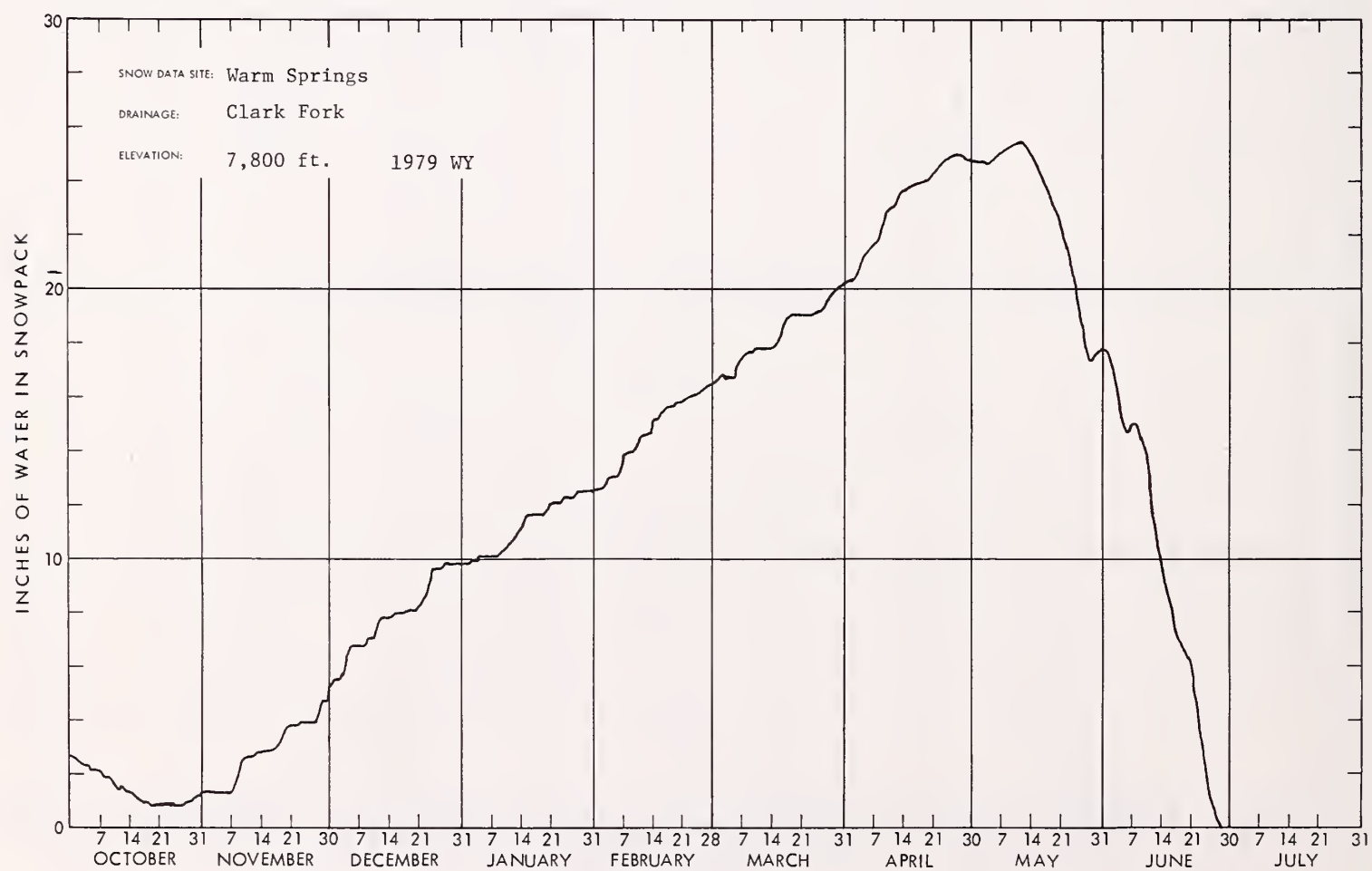
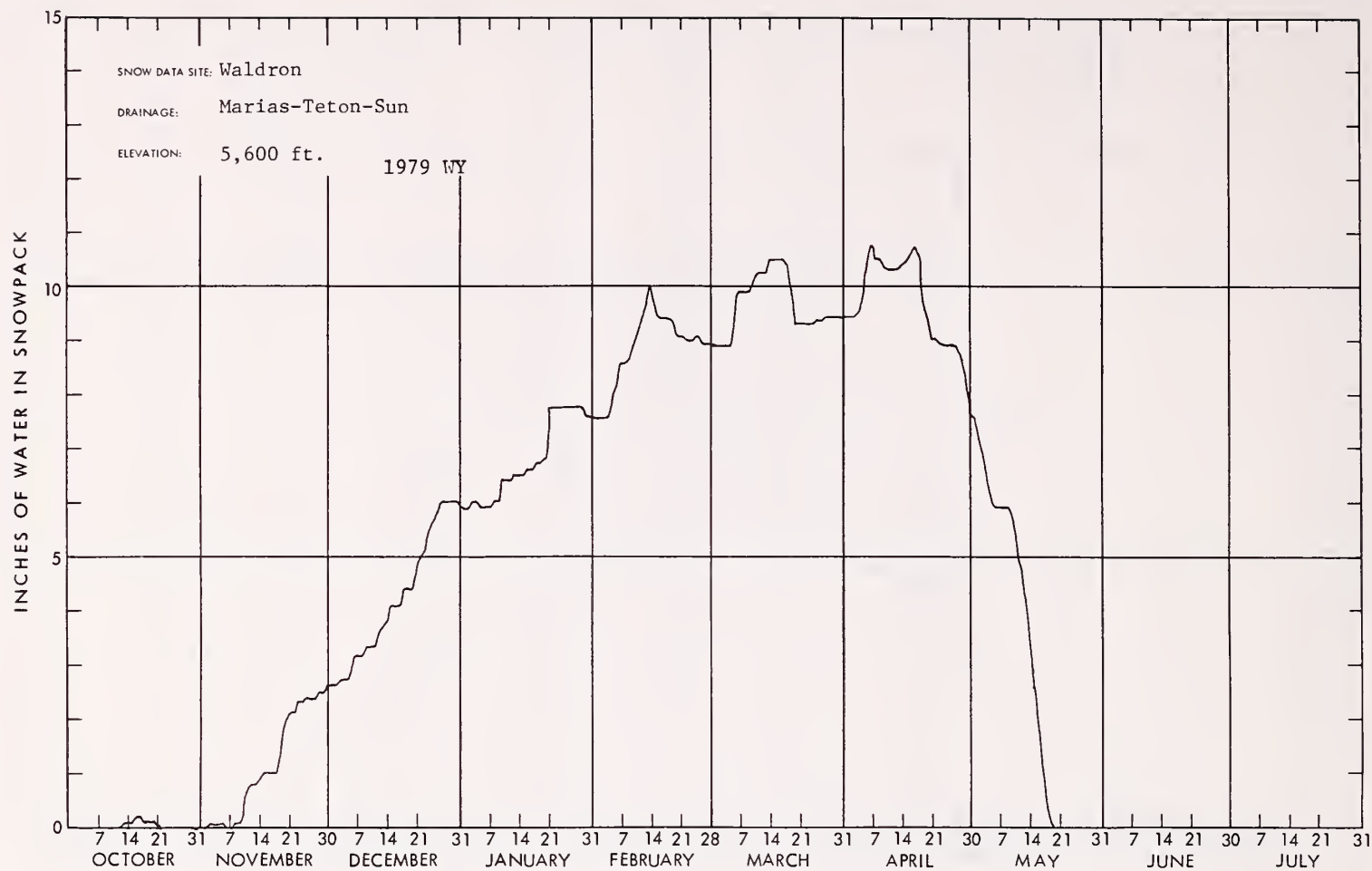


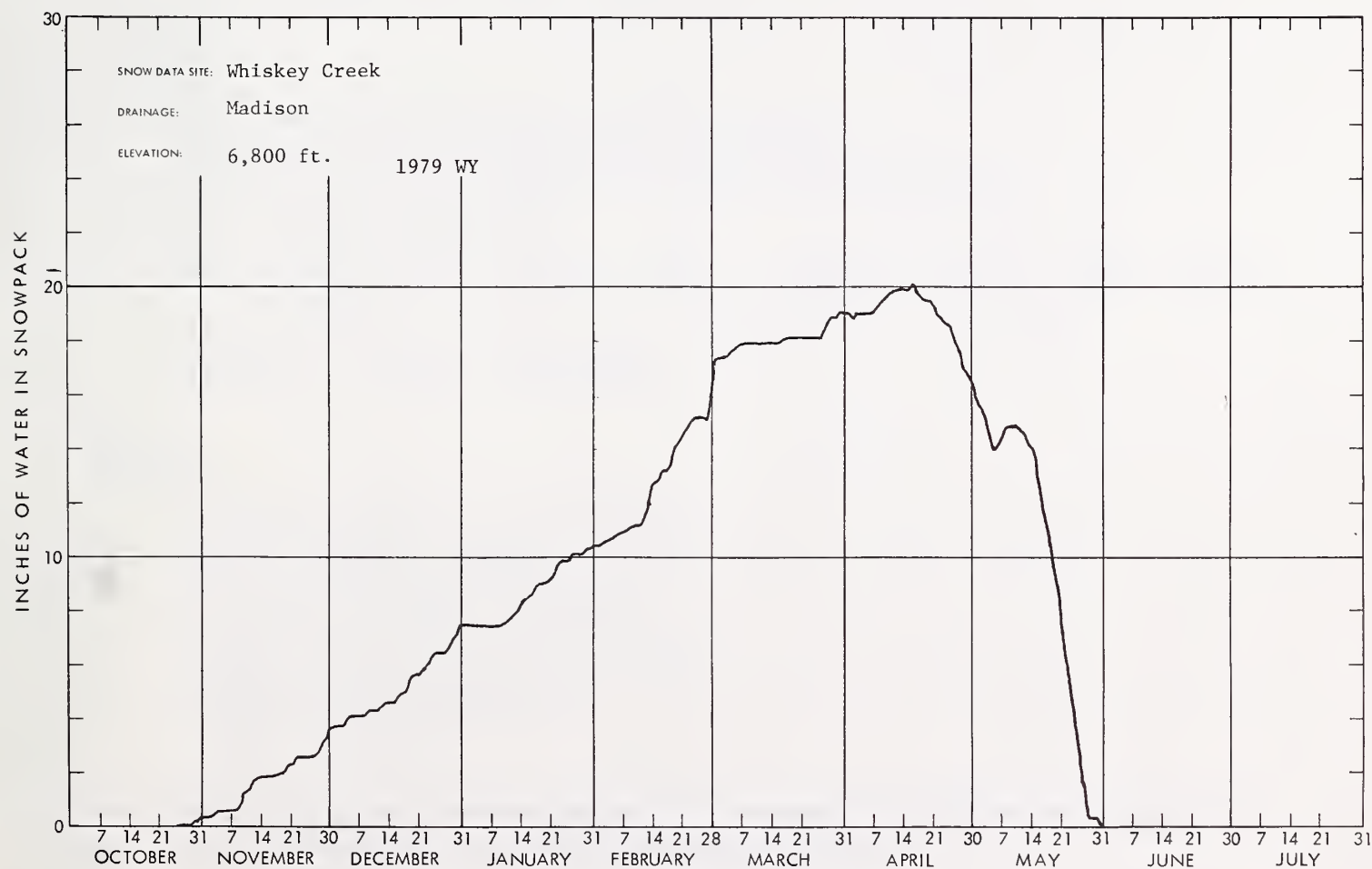
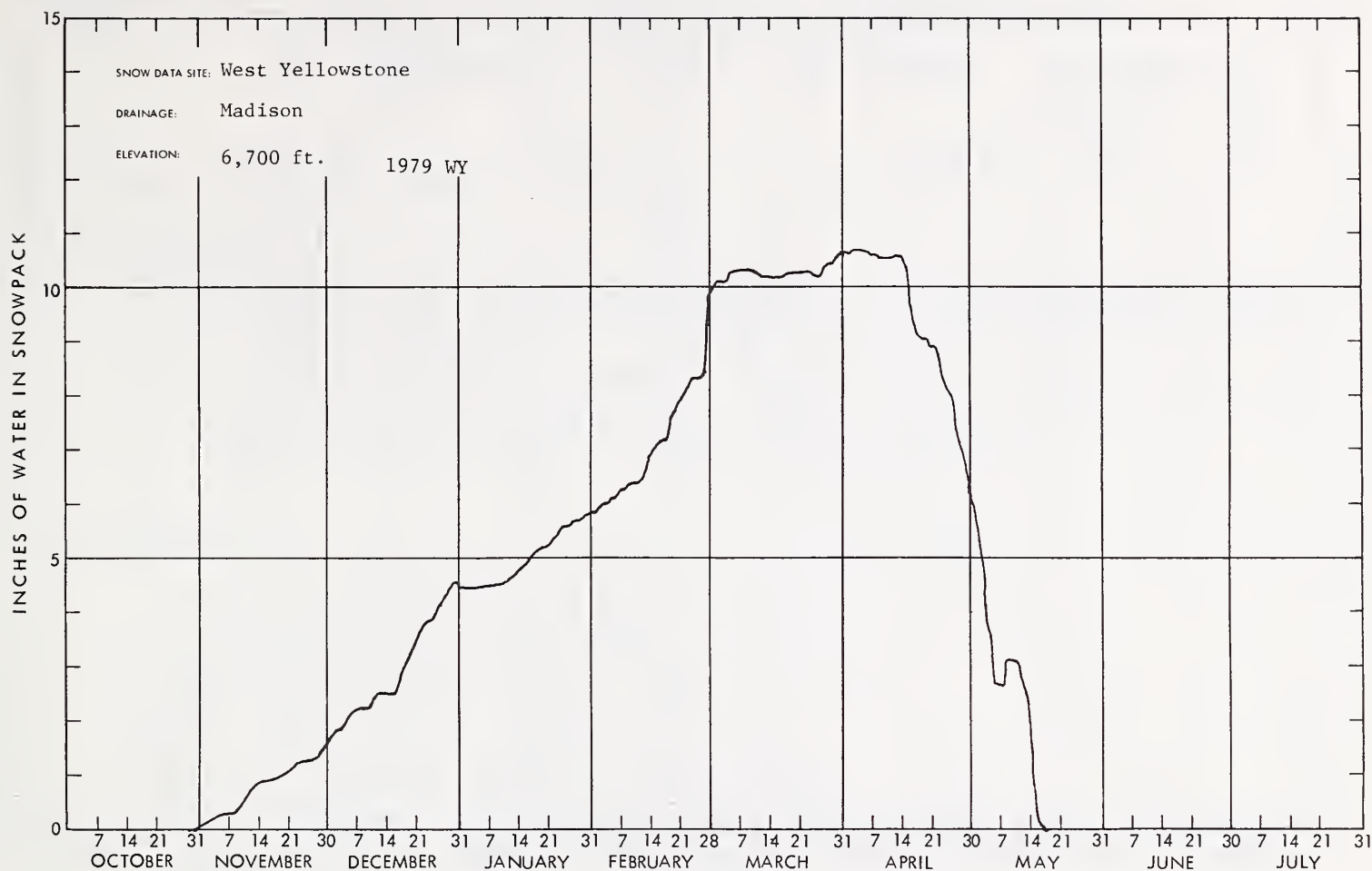


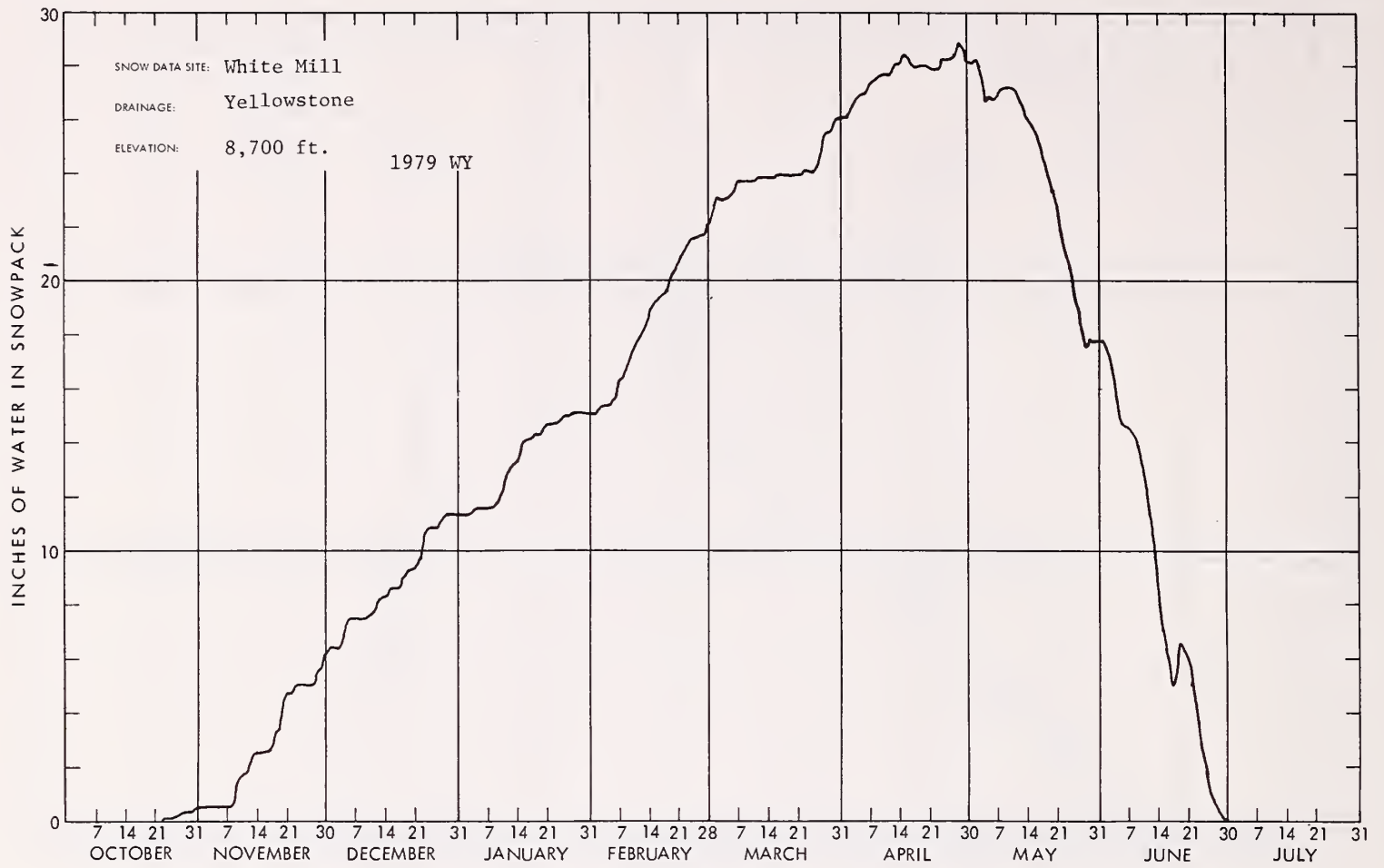












Agencies and Organizations Cooperating in Montana Snow Surveys

GOVERNMENT AGENCIES

CANADA:

Water Survey of Canada, Calgary, Department of the
Environment
Ministry of Environment, Water Investigations Branch,
British Columbia
Alberta Environment, Edmonton, Alberta

FEDERAL:

U. S. Department of the Army
Corps of Engineers
U. S. Department of Agriculture
Forest Service
Soil Conservation Service
U. S. Department of Commerce
NOAA, National Weather Service
NOAA, National Environmental Satellite Service
U. S. Department of Interior
Bonneville Power Administration
Bureau of Indian Affairs
Bureau of Reclamation
Fish and Wildlife Service
Geological Survey
National Park Service

STATE:

Montana Conservation Districts
Montana Department of Fish and Game
Montana Department of Natural Resources and
Conservation
Montana State University - Agricultural Experiment
Station
University of Montana - School of Forestry
DNRC - State Forester

PRIVATE:

Montana Power Company
Butte Water Company
The Anaconda Company
Big Sky of Montana
Jack and Scott Graveley
Arthur Christensen
Jack Fenton

Other organizations and individuals furnish valuable information for snow survey reports. Their cooperation is gratefully acknowledged.

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